



January 27, 2014

Ms. Alison Oakley
Nevada Division of Environmental Protection - Bureau of Corrective Action
901 South Stewart Street
Carson City, NV 89701

Re: NV Energy
Reid Gardner Station Facility ID# H-000530
Second Semi-Annual 2013 Groundwater Monitoring and Remediation Report

Dear Ms. Oakley:

The Annual Sampling Record, Tables 1A, 3, 4, and 5, copies of the laboratory analytical reports, chain-of-custody documentation, maps of the entire site that illustrate the groundwater elevations and iso-concentrations of chemicals of concern, and graphs are included on the attached CD titled Second Semi-Annual 2013 Groundwater Monitoring and Remediation Report. The file formats are either PDF, WORD, or EXCEL.

Following is a brief summary of the activities conducted during the third quarter 2013 at the above-referenced facility (for an update on Administrative Order On Consent (AOC) Activities, please refer to the section **Administrative Order On Consent (AOC) Activities** of this report):

WORK PERFORMED THIS QUARTER – THIRD QUARTER 2013

- Conducted the Second Semi-Annual 2013 sampling event

WORK PROPOSED FOR NEXT QUARTER – FOURTH QUARTER 2013

- AOC quarterly groundwater gauging
- Continue efforts to improve and maintenance of the groundwater extraction and treatment systems

Current Phase of Project:	<u>Monitoring/Remediation</u> (Assessment, etc.)
Frequency of Monitoring:	<u>Quarterly</u> (Quarterly, etc.)
Frequency of Sampling:	<u>Semi-Annually</u> (Quarterly, etc.)
Separate-Phase Hydrocarbons Present:	<u>Yes in NE part of Plant Area</u> (Yes/No)
Current Remediation Techniques:	<u>Groundwater P&T</u> (DPE, P&T, etc.)
Approximate Depth to Groundwater:	<u>4.3 to 163.17</u> (foot/TOC)
Average GW Change from Last Quarter:	<u>1.01</u> (GW Elevation feet)
General Groundwater Flow Direction:	<u>Easterly</u> (Direction)

Response to Comments

The NDEP provided comments on the First Semi-Annual 2013 Groundwater Monitoring Report on September 27, 2013. The comments are shown below along with responses from NVE.

Comment #1

"General Comment, The subject document indicates several concerns regarding wells and/or conditions of wells. NDEP recommends dedicating a portion of a future work shop to specifically discuss these wells and the associated concerns."

Response #1

In response to NDEP's Comment #1, NDEP's comments on the First Semi-Annual GMR were discussed at the October 16, 2013 Quarterly AOC Meeting/Workshop. NVE presented a table showing the conditions of wells currently being monitored and agreed to provide this table to NDEP. This table is also used to track resolutions. The well maintenance table is located in the tables section of the report.

Comment #2

"Page 4, Summary of Analytical Results, It would be helpful to include a copy of the table called Annual Sampling Record in the body of the Report rather than on the CD. Knowing what wells are in which area (ex., Pond Wells, Mesa Wells, etc.) helps with understanding the discussion in the Report."

Response #2

The Annual Sampling Record table has been added to the Attachments in the main body of the GMR in addition to the CD.

Comment #3:

"Page 4, Summary of Analytical Results, It was noted that many of the wells are pumped dry during purging. NVE might consider using low-flow/micro purging and sampling methods, or a sampling technique such as HydraSleeve sampling. This could enable sample collection without well dewatering."

Response #3

The use of low flow and no flow purging was discussed at the October 16, 2103 Quarterly AOC meeting. Because roots are common in the wells at NVE, Hydrasleeves may not be robust enough for the conditions. It was agreed that NVE would try low flow purging and sampling in a few wells that typically purge dry. This data would then be compared with data collected when the well is purged dry. The low flow purging and sampling will occur during the fourth quarter of 2013. NVE plans on sharing this data during a future AOC meeting.

Comment #4:

"Page 5, Hogan Wash Area, Wells specific to the Hogan Wash area are not listed as such on the Annual Sampling Record table. If Hogan is being individually discussed, the wells should be separately listed. The same reasoning applies to the Unit 4B/C Pond wells and the Unit 4A Pond wells."

Response #4

As requested, the Annual Sampling Record has been updated to reflect the groupings discussed in the report.

Comment #5:

"Page 8, Dissolved Chlorinated Solvents, There is not actual discussion about chlorinated solvents in this section. Please discuss how the petroleum free product that is bailed from HM-50R and HM-48R is disposed. Free product potentially containing chlorinated solvent constituents should be properly disposed of as hazardous waste."

Response #5

NVE will hand bail the free product from HM-50R and HM-48 and place the recovered free product in a drum located on the Reid Gardner used oil waste pad. A sample will be collected and analyzed for chlorinated solvents following the first hand bailing event providing a sufficient volume of free product is recovered to be analyzed. If chlorinated solvents are detected above State Action Level, the drum will be moved to the Reid Gardner hazardous waste pad and continue to collect free product to a monthly (calendar month) maximum of 20 gallons. The monthly maximum volume is established for Conditionally Exempt Small Quantity Generator considerations. If no chlorinated solvents are detected the free product will continue to be stored in the drum on the used oil waste pad. After 20 gallons of free product is collected, a second sample will be collected and analyzed for chlorinated solvents. If chlorinated solvents are detected above State Action Level, the drum will be moved to the Reid Gardner hazardous waste pad for proper disposal in accordance with applicable regulations. If no chlorinated solvents are detected, the 20 gallons of free product will be disposed of in the Reid Gardner used oil tank or the diesel remediation system oil/water separator.

Copies of the laboratory report will be included in subsequent GMRs if chlorinated solvents are detected above State Action Level.

Comment #6:

"Page 9, Diesel Recovery Discussion, diesel free product typically emulsifies when removed from the aquifer via dual phase extraction. NVE should evaluate if the product recovery numbers represent true free product or recovered product in emulsion with water."

Response #6

NVE agrees the product could be somewhat emulsified. The diesel free product volumes included in this report were obtained after the product had been allowed to separate in the product recovery tank.

Comment #7:

*"Editorial comments, a. Page 7, third paragraph add – "found in the laboratory **results** when..."
b. Page 8, 4th paragraph change – "having a **lite** tan hue" to having a **light** tan hue."*

Response #7

NVE has noted the editorial comments. Because the observations have changed this quarter the suggested wording was found to be not applicable and was not used.

Monitoring Well Network Updates

On January 9, 2012, the NDEP Bureau of Corrective Actions (BCA) approved NVE's request for an interim reduction in groundwater sampling frequency and elimination of total petroleum hydrocarbon (TPH) monitoring. The wells regulated by the NDEP BCA are now sampled semi-annually during the first and third quarters. Groundwater monitoring wells will continue to be

gauged for depth to water and product thickness every quarter. This change will be in effect until a Final Groundwater Sampling Plan is approved by NDEP. This report summarizes the results of the Second Semi-Annual 2013 Sampling Event.

IMW-3S and IMW-3D, wells located north of the site, are located on Bureau of Land Management (BLM) land. The BLM right-of-way access to these wells has been resolved and NVE has resumed sampling these wells.

IMW-16S, a well located south of the Muddy River and on the Hidden Valley Dairy property, was inaccessible this quarter due to a locked gate. NVE is requesting permission to access this well as well as three former wells (KMW-5S, 5M, and 5D).

Corrections

One page of Table 1 was inadvertently left out of the First Semi-Annual Report attachments. It is included at the end of this report for your reference. This page was, however, included in the excel version of Table 1 provided on the First Semi-Annual Report CD.

Summary of Analytical Results

Please refer to the 2013 Annual Sampling Record in the tables section of this report which identifies which well samples were collected this quarter and provides remarks on field conditions at the time of sampling. Laboratory analytical results for groundwater samples collected in August 2013 are summarized in Table 1. Muddy River samples are also included for reference in Table 3 although they are not required under this permit.

A statistical analysis was performed to identify data which may be outliers. The current data was compared with the mean of the data collected since the third quarter of 2008, the first sampling event where electronic data delivery was used. Current values that were more than three standard deviations from the mean were evaluated further. These concentrations were compared to the range of historic values, resulting in a list of potential outliers. Contour maps and trend graphs from recent quarters were also compared to identify potential outliers. The laboratory and field personnel were then consulted regarding these outliers. Field personnel reviewed their field book and forms for possible deviations, inconsistencies and/or unusual observations. The laboratory Quality Assurance Officer reviewed instrument bench level data, calculations, quality control data, and data transcription. This process resulted in several locations and parameters that could be considered outliers, as discussed below.

Site-Wide

Selenium had been analyzed by ICP method since 2011. The Second Semi-Annual 2012 GMR reported that selenium concentrations were higher than historic levels, and re-evaluation of the samples suggested that ICP-MS may be a better laboratory method for this analysis. Selenium was analyzed by ICP-MS for the Second Semi-Annual 2013 GMR, and selenium concentrations were again elevated. Selenium concentrations are shown on Table 1, Figure 6, and the laboratory results provided on the attached CD. The cause of the selenium fluctuations is under further evaluation.

Mesa Wells

During this quarter, one well (LMW-3) was purged dry prior to sampling and groundwater samples from the following mesa wells exhibited silty conditions: LMW-2, LMW-3, LMW-4R, LMW-7, LMW-9, LMW-10, KMW-12, and KMW-16. This is consistent with previous field

observations. These wells are all screened in the upper portion of the Muddy Creek Formation which is described as an interbedded fine-grained sand, silt, and clay formation. Over time, silt accumulates in the Mesa wells necessitating redevelopment or replacement of the wells. High silt content in wells can potentially compromise sample quality. As a precaution, samples are filtered by the laboratory prior to analysis to minimize the impact of the silt on the water quality results. TDS concentrations have remained relatively constant on the mesa, an indication of the comparability of sampling conditions, procedures, and analytical methods.

Hogan Wash Area

The Hogan Wash wells are located west of Pond 4B-3 between two mesas, one to the north and another to the south. Groundwater in this area ranges from 18 to 23 feet bgs. The subsurface lithology is comprised on interbedded sands, silts, and clay with varying amounts of gravel. These fine sediments result in wells that purge dry quickly and recharge.

Trend graphs of the Hogan Wash Area groundwater quality conditions were provided in the First Semi-Annual GMR 2012 and have been updated as seen in the Graphs Attachment section of this report. Sulfate concentrations are highest in KMW-1S with a slight overall decrease in concentrations since Third Quarter 2008 (~10,000 mg/L) and a significant decrease with depth in this well cluster (~40,000 mg/L). Sulfate concentrations in downgradient well KMW-19 have also decreased over time. TDS concentrations in this area, with the exception of a few outliers, show trends similar to sulfate.

Possible laboratory outliers were found this quarter in KMW-1D and KMW-20. The laboratory reanalyzed the samples and verified the original results. NVE will continue to observe conditions at these wells.

During this sampling event, KMW-1S was bailed dry at one gallon which is the equivalent of 1.5 well volumes and field personnel report that it typically recharges very slowly. Roots were noted on the field report for the third time. This well is screened from 10 to 25 ft bgs. The hydrograph in the Graphs Attachment section of this report shows that the groundwater elevation in KMW-1S varies seasonally and has decreased three to four feet overall since the well was installed in 1998. Because this well is nearly dry (~4 ft of water), NVE is considering abandonment of this well in 2014 as seen in the well maintenance table.

KMW-1M was pumped dry at 4 gallons, the equivalence of 1.1 well volumes. The purge and sample water was noted to have a yellow-brown color as documented in the field data forms. KMW-1D was pumped clear at 3 well volumes.

IMW-2SR was pumped dry at approximately 23 gallons, the equivalence of 1.3 well volumes. Roots were noted on the field report, and had also been previously noted. A sulfur odor had been previously noted but was not noted during this sampling event. This well is screened from 19 to 39 ft bgs and the depth to groundwater this quarter was approximately 22 ft bgs. This well was installed in the third quarter of 2011 and the screen is set in a varied lithology including silty sand, clay with sand and silt, sandy silt, sandy gravel, and sand. IMW-2D was pumped clear at three well volumes.

KMW-19 was covered with roots and the field technician was unable to collect a sample. This occurred for the first time this quarter and a water level can still be obtained. NVE will observe the status of this well at the next sampling event and consider ceasing sampling the well. Roots and silt were also noted in nearby well KMW-20 for the first time during this sampling event. These wells were added to the well maintenance table.

Unit 4B/C Pond Area Wells

All of the wells in Unit 4B and 4C pond area are completed in the alluvial aquifer. In general, these wells were installed in interbedded very fine sand, silt and clay with occasional gravel lenses. The fine sediments likely cause the wells to purge dry quickly and recharge slowly. Of the 19 wells in this area, 13 were purged dry prior to sampling this quarter.

MW-10RR, located on the west side of Pond 4C-2, was noted as having purge water with a light yellow hue and roots were noted on the pump head this quarter. There was approximately 16 feet of water column in the well; however, the well was pumped dry after 13 gallons or 1.2 well volumes. This well was installed in the second quarter of 2011 and screened from 6 to 16 ft bgs in deposits of interbedded sandy gravel, clayey sand, and lean clay. NVE will continue to watch the conditions at this well for chemical and physical changes.

Ten new four-inch diameter wells (MW-11 to MW-16) were installed around and in between Pond 4B and 4C during the first quarter of 2013. All the wells were pumped dry. The shallow wells were purged dry after 5-11 gallons or approximately 1.2 well volumes. The medium depth wells were purged dry after 14-21 gallons or approximately 1.1 well volumes. MW-11S, MW-11M, MW-12S, were noted as silty upon sample collection. MW-14S and MW-15 were noted as having a yellow color. Possible laboratory outliers were found this quarter in MW-15. The results seemed high compared to previous sampling data and the adjacent wells located south of the ponds. Because this is a newer well, there is limited data for comparison. The laboratory reanalyzed the samples and verified the original results. NVE will continue to observe conditions at MW-14S and MW-15.

Former Pond 4A Area Wells

NVE samples the CMW wells, located within and around former Pond 4A, to evaluate the groundwater quality and whether it changes with depth. These wells were redeveloped during the first quarter in 2013 due to observed silt accumulation and its potential to impact analytical results. Almost all of the shallow CMW wells were noted as having silty conditions during the first quarter of 2013 and this quarter. Based on these observations and the well completion logs it is inconclusive whether redevelopment had any impact. The Unit 4A Pond wells are completed in the alluvial aquifer which is described as being comprised of interbedded fine sand, silt and clay. NVE will continue to monitor the conditions in these wells.

During the last sampling event at MW-9 field personnel reported a strong decomposing organic odor while purging the first five gallons, and collected a clear water sample with a light sewage odor. During this sampling event, a slight sulphur odor was noted during the first 10 gallons, but the sample was again clear. The groundwater in downgradient well KMW-15 was noted to have a pale yellow color during this sampling event. Both of these wells were constructed in the upper portion of the alluvial aquifer. No laboratory outliers were found in either of these wells this quarter. NVE will continue to monitor the conditions at these wells.

MW-1R was pumped dry at 18 gallons or after 2.25 well volumes. The groundwater remained clear though roots were noted on pump upon removal from the well. NVE will continue to observe conditions at this location and has added the well to the well maintenance table.

Units 1, 2, 3 Pond Wells

The wells in the area of the Units 1, 2, and 3 ponds are all completed in the alluvial aquifer and, in general, do not produce much water. This is likely due to the subsurface lithology being comprised of very sandy, silt, and clay sediments. Of the 23 wells in this area, 19 were purged

dry prior to sampling this quarter. A yellow color was noted in seven wells located around the Unit 1,2,3 Ponds, P-15AR was noted as yellow-brown, and KMW-9 was noted as silty. Field personnel noted in the past that wells P-17A, P-17B, and P-18B, located around Pond F and near the Muddy River, recharge very slowly. Boring logs are not available for these wells, but it is understood that the wells were installed before the mid-1980s. As discussed in the fourth quarter 2011 GMR, a camera investigation revealed that these wells have 5-foot screen lengths. Another well in the area, P-18A, has been dry for several quarters. The camera investigation showed wooden debris clogging the casing. Considering the age of these four wells and the nature of the groundwater conditions in this area, the usefulness of these wells will be evaluated as part of the geologic data gaps and source area investigations.

The casing around well P-2, located at the east side of Pond E, was repaired during the first quarter of 2013. In the third quarter of 2012, field personnel had noted a yellow hue in this well but it was not noted during the first quarter of 2013. During this quarter a yellow color was again noted of the sample collected from P-2.

Potential outliers were noted in the P-8R fluoride samples. The laboratory reviewed their results and found a dilution error. Revised reports are included in the CD and reflected in the figures and tables. No other data outliers were noted this quarter.

A trend graph of TDS concentrations of the Former Pond D area can be found in the Graphs Attachment section of this report. Figure 9 is a contour map showing TDS concentrations from this quarter. Well P-8R exhibits the highest concentration of TDS in the Pond D area, however adjacent well P-7R to the east has the highest concentration site-wide. Concentrations have fluctuated from 80,000-160,000 since the third quarter of 2008; however the trend is relatively stable. Other wells in the area of Pond D also exhibit stable trends. Because solids were removed from 2010, it is not expected that these trends would start to increase.

KMW-9, considered to be a medium depth alluvial aquifer well, has exhibited high TDS concentrations and fluctuating groundwater levels. The well is screened from 50 to 60 feet bgs. As discussed in previous GMRs, it is possible that the bentonite seal or well casing are cracked, causing the water quality in the well to resemble the shallow groundwater quality. The camera investigation conducted in early 2012 did not identify well integrity issues. This well is planned to be abandoned and replaced with a downgradient well cluster on the adjacent BLM property to the south.

Well P-10 is located south of former Pond D and was previously noted as having organic material (roots). No unusual observations were noted during the last two sampling events. This well was constructed in 1998 and screened from 4 to 14 ft bgs in sandy clay with black organics at 12 ft bgs. Because the well was pumped dry 4 gallons or 1.2 well volumes, and roots were observed in the past, the well screen may be breached or the filter pack may be clogged. NVE will continue to observe the conditions at this well and may consider abandonment in the future if roots reappear in this well.

Dissolved Chlorinated Solvent Area Wells

Product has been noted in HM-50R and HM-48 since the third quarter of 2011 and second quarter of 2012, respectively. HM-50R was replaced in the third quarter 2011 and is adjacent to a known source of petroleum and solvents, the lube oil rack. However, free product was not previously noted in HM-50. Free product removal activities for these wells are further discussed in the Diesel Recovery Discussion section in this report.

HM-8 was the only well sampled in this area this quarter. Field personnel described the water sample as being silty and brown, consistent with previous quarters. No laboratory outliers were found in this well during this quarter.

WMU-12 Area Wells

HM-60 well located west of the Units 1,2,3 coal pile between Units 1 and 2, was pumped dry at 11 gallons or 1.3 well volumes. In the past it was noted that the groundwater had a light yellow hue and was slightly silty. During this sampling event clear water was noted during pumping.

Groundwater from HM-32R, also located west of the Units 1,2,3 coal pile, was noted as having a slightly yellow hue in the past; however no unusual observations were reported this quarter or last quarter. No outliers were found in the laboratory data for these three wells when compared to the past analytical results.

Well HM-20, located east of the Units 1,2,3 coal pile, was noted as having free product. Product has been measured in this well since 2003 and is equipped with a passive free product recovery device. Nearby well HM-24 was noted as having a sheen on the groundwater according to the field notes. This was also observed during the three previous sampling events. The sample collected was described as having a sheen as well. NVE will continue to observe conditions at HM-20 and HM-24.

The sample collected from HM-31R, also east of the coal pile, was noted as having a green/grey sheen consistent with the previous quarters. This well was also pumped dry after 8 gallons or 1.2 well volumes. Another well in the area, HM-28, was noted as having slightly silty conditions, consistent with previous quarters.

HM-54, located downgradient of the Unit 4 coal pile, was noted as having a light orange hue to the groundwater for the first time last quarter. This quarter the orange color was noted during purging, but not noted in the sample collected.

No laboratory outliers were found in the analytical data associated with these wells this quarter.

Former ASP-1 ,2, 3 Area Wells

Two of the five wells in this area were bailed dry. IMW-17 was noted as very silty during the last five to seven gallons purged. No laboratory outliers were found in the analytical data associated with these wells this quarter.

Diesel Recovery Discussion

On July 1, 2013, NV Energy received a concurrence letter from Ms. Alison Oakley for the Revised Diesel Remediation System Design Work Plan providing incorporation of the letter's Attachment A comments into the Final Interim Diesel Remediation System Design Work Plan. Incorporation of Attachment A comments was completed on July 25, 2013. The Work Plan indicated that the remediation system upgrades would be ordered, installed, and operational within 6 months. During third quarter 2013, remediation system components were ordered and awaiting delivery for installation.

Passive and remediation system product recovery occurred during second quarter 2013. Remediation system product recovery occurred intermittently for testing to determine system

upgrades. During third quarter 2013, the remediation system was down for maintenance and upgrades. Passive product recovery continued during third quarter 2013.

The table below summarizes the volume of diesel fuel removed during second and third quarters 2013 and the total fluids removed historically. The table does not include 250,000 gallons of diesel fuel that was recovered at the Reid Gardner Station prior to the fourth quarter 2003.

REID GARDNER DIESEL RECOVERY	Second and Third Quarters 2013	TOTALS	
	TOTAL DIESEL FUEL (GAL)	FLUID (GAL)	DIESEL (GAL)
Dual Phase Extraction	419	2,354,820	22,114
Additional Recovery (passive recovery)	53	30,197	1,190
Total Recovery	472	2,385,017	23,304

Pond D/E Groundwater Recovery

During the second and third quarters of 2013, a total of 90 gallons of groundwater was recovered and placed into ponds. The Pond D/E recovery sump pumps were operated automatically during the referenced period. The following table summarizes the Pond D/E groundwater recovery effort.

REID GARDNER POND D/E RECOVERY SUMPS	2 nd /3 rd Qtr 2013	TOTAL (Since inception)
E POND Gallons Pumped	0	465,030
D POND Gallons Pumped	90	2,363,949

Administrative Order on Consent (AOC) Activities

The following summary of Administrative Order on Consent (AOC) activities for the fourth quarter of 2013 (October - December) is provided in accordance with Section XII of the AOC that was signed by NV Energy and NDEP on February 22, 2008:

a) Actions taken:

- Prepared meeting minutes from the August 28, 2013 quarterly AOC meeting and submitted to the NDEP on October 3, 2013.
- Prepared for and attended quarterly AOC implementation meeting with NDEP on October 16, 2013.
- Prepared meeting minutes from the October 16, 2013 quarterly AOC meeting and submitted to the NDEP on December 30, 2013.
- Continued implementation of the revised Interim Diesel Remediation System Design Work Plan that was submitted to NDEP on July 25, 2013.

- Continued work on the Conceptual Site-wide Model (CSM) visualization using ArcGIS software.
- Continued preparation of a Work Plan for Muddy River data collection to develop a preliminary flow balance for the Muddy River as it travels through the Station.
- Prepared for and attended a GoToMeeting with the NDEP on December 10, 2013 to discuss preliminary comments on the Background Conditions Report.
- Continued to maintain and update the Encyclopedia of Supporting Documentation as additional information became available.
- Continued to maintain and update the geodatabase as additional information became available.
- Continued to coordinate with laboratory and groundwater sampling consultant with respect to the Groundwater Monitoring Report (GMR) semi-annual monitoring.

b) Summary of field activities for fourth quarter 2013 (October - December):

Groundwater sampling was conducted in November and December 2013. The data will be summarized in the annual Groundwater Monitoring Report (GMR) that will be submitted to the NDEP by January 28, 2014. No additional field activities pertaining to the AOC were conducted during the fourth quarter 2013.

c) Deliverables completed and submitted:

- The Draft Background Conditions Report was submitted to the NDEP on October 4, 2013.
- Data Validation Reports for Fourth Quarter 2012 Background Groundwater Sampling and Pond F Soil Sampling that were submitted to the NDEP in April 2013 were approved on October 15, 2013.
- The Pond F Solids Removal Completion Report was finalized based on NDEP comments dated September 27, 2013 and submitted to the NDEP on October 30, 2013. NDEP approved the report on November 8, 2013.

d) Activities accomplished or planned for the next quarter and schedule update:

- **Evaluation of Background Conditions** – NVE will prepare workshop materials and provide them to the NDEP prior to the January 29, 2014 workshop. The Draft Background Conditions Report will be revised based on NDEP input at the workshop and receipt of formal comments.
- **Ponds 4A/C1/C2 Solids Removal Work Plans** – NVE will prepare Draft Solids Removal Work Plans for Ponds 4A, C1 and C2 and provide to the NDEP for review.
- **Muddy River Work Plan** - A Work Plan for Muddy River data collection to develop a preliminary flow balance for the Muddy River as it travels through the Station will be submitted to the NDEP.
- **Free Product Investigation** – NVE will submit a work plan to conduct a Laser Induced Fluorescence (LIF) Investigation in the area of Former Underground Product Piping, Petroleum Tanks (Source Area 14).
- **Encyclopedia of Supporting Documentation** – NVE will continue to maintain the Encyclopedia of Supporting Documentation as new documents become available.
- **Quarterly Meetings** – NVE will prepare for and attend a quarterly AOC implementation meeting with NDEP on January 29, 2014. This will include a

workshop to discuss the Draft Background Conditions Report. Meeting minutes will be prepared and submitted to the NDEP.

- **Monthly AOC Status Update Reports** – NVE will continue to provide monthly status reports and schedules to the NDEP by e-mail.
- **Diesel Recovery System** – NVE will complete implementation of the interim work plan.

e) Unresolved delays encountered or anticipated and efforts to mitigate them:

No unresolved delays were encountered or anticipated.

f) Modifications to plans or schedules:

Updated tentative AOC implementation schedules are uploaded to FilesAnywhere monthly.

g) Community relations activities completed the previous quarter and planned for the next quarter:

Electronic copies of NDEP-approved Data Validation Reports for Fourth Quarter 2012 Background Groundwater Sampling and Pond F Soil Sampling were provided to the NDEP to post on the website on October 30, 2013 and hard copies were provided to the Moapa Band of Paiutes and Moapa Library on October 30, 2013.

Electronic copies of the NDEP-approved Pond F Solids Removal Completion Report were provided to the NDEP to post on the website on November 12, 2013 and hard copies were provided to the Moapa Band of Paiutes and Moapa Library on November 12, 2013.

The Community Relations Fact Sheet and figure located on the NDEP website was updated and provided to the NDEP on October 28, 2013.

NVE will provide suggested wording changes for the Reid Gardner Station overview on the NDEP Bureau of Corrective Actions website. NVE will also continue to provide copies of NDEP-approved deliverables to the Moapa Band of Paiutes and the document repository that is maintained at the Moapa Public Library in Moapa, Nevada.

If you have any question regarding this report, please contact the undersigned at (702) 402-5958.

Sincerely,



Jason Reed
Staff Environmental Engineer
CEM #1978, Expiration 5/18/16

cc: Tony Garcia – NV Energy
John Kivett – Arcadis
Brad Cross – Arcadis
Darren Daboda – Moapa Band of Paiutes

Attachments:

Jurat Letters

Figure 1A – Site Monitoring Locations

Figure 1B – Diesel Plume Area Monitoring Locations

Figure 2A - Shallow Groundwater Contour and Site Location Map (11 X 17")

Figure 2B - Shallow Groundwater Contour Facility Map (11 X 17")

Figure 3 - Dissolved Arsenic Contour Map (11 X 17")

Figure 4 - Dissolved Magnesium Contour Map (11 X 17")

Figure 5 - Dissolved Manganese Contour Map (11 X 17")

Figure 6 - Dissolved Selenium Contour Map (11 X 17")

Figure 7 - Dissolved Sodium Contour Map (11 X 17")

Figure 8 - Dissolved Sulfate Contour Map (11 X 17")

Figure 9 - Total Dissolved Solids Contour Map (11 X 17")

Figure 10 - Diesel Recovery Area Product Thickness Contour Map (11 X 17")

Table 1 – Second Semi-Annual 2013 Monitoring and Sampling Results (Wells)

Table 1A – Quarterly Diesel Recovery Area Monitoring Well Product Levels

Table 3 – Second Semi-Annual 2013 Monitoring and Sampling Results (Muddy River and Spring)

Table 4 – Groundwater Elevations Second Semi-Annual 2013

Table 5 – Well Maintenance

Corrections – Second Semi-Annual 2013 Table 1 Missing Page

Graphs – Hogan Wash and Former Pond D Areas

Annual Sampling Record

CD Contents:

Second Semi-Annual 2013 Reid Gardner Groundwater Monitoring Report

Environmental Consultant Jurat Letters

Figure 1A – Site Monitoring Locations (11 X 17")

Figure 1B – Diesel Plume Area Monitoring Locations (11 X 17")

Figure 2A - Shallow Groundwater Contour and Site Location Map (11 X 17")

Figure 2B - Shallow Groundwater Contour Facility Map (11 X 17")

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Figure 9 - Total Dissolved Solids Contour Map (11 X 17")

Figure 10 - Diesel Recovery Area Product Thickness Contour Map (11 X 17")

Table 1A – Quarterly Diesel Recovery Area Monitoring Well Product Levels

Table 3 – Second Semi-Annual 2013 Monitoring and Sampling Results (Muddy River and Spring)

Table 4 – Groundwater Elevations Second Semi-Annual 2013

Table 5 – Well Maintenance

Annual Sampling Record

Field Log Sheets Q1 2013

Excel Monitoring and Sampling Database

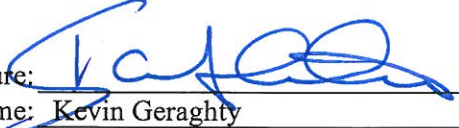
Laboratory Analysis Data - Example File = V13H034 Unit 4 Pond Wells.pdf

JURATS

Certifications

NVE Certification

I certify that this document and all attachments submitted to the Division were prepared under the direction or supervision of NV Energy (NVE) in accordance with a system designed to gather and evaluate the information by appropriately qualified personnel. Based on my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted and provided by NVE is, to the best of my knowledge and belief, true, accurate, and complete in all material respects. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 
Name: Kevin Geraghty
Title: Vice President, Power Generation
Company: NV Energy
Date: 11/27/2014

Certified Environmental Manager Certification

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances.

Services Provided: Preparation of the Third Quarter 2012 Quarterly Groundwater Monitoring Report for the Reid Gardner Station Facility

Name: Jason Reed

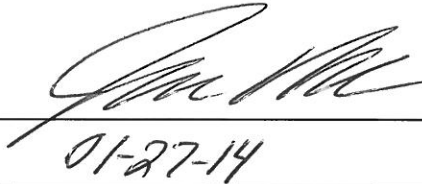
Title: Staff Environmental Engineer

Company: NV Energy

CEM Certification Number: 1978

CEM Expiration Date: 5/18/2016

Signature:

A handwritten signature in black ink, appearing to read 'Jason Reed', is written over a horizontal line.

Date:

01-27-14

Certified Environmental Manager (CEM) Certification

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances.

Signature: Rebecca L. Svatos
Name: Rebecca L. Svatos
Title: Senior Technical Advisor
Company: Stanley Consultants
Date: 7/13/2014
EM Certificate Number EM-1931
EM Expiration Date: 9/30/2015



September 3, 2013

Mr. Jason Reed
NV Energy
6226 W. Sahara Avenue
Las Vegas, NV 89146

Subject: Third Quarter 2013 Groundwater, Pond, and River Sampling
NV Energy – Reid Gardner Station
Moapa, Nevada

Dear Jason:

In accordance with Purchase Order No. 0001024889, dated December 22, 2010, modified December 19, 2012 (Modification 2), OGI Environmental, LLC (OGI) has completed groundwater, river and pond sampling at the above referenced site during the third quarter, 2013. Water samples were collected from 107 monitoring wells, six pond locations (all leachate samples), one EFPS location, five river locations and one spring location and were submitted to Veritas Laboratories, a Nevada-certified laboratory, for testing. Well gauging only was conducted by OGI August 27, 2013 on 27 additional wells associated with the Diesel Recovery System (to evaluate free product thickness). Two wells were gauged during well sampling, but could not be sampled because they were dry (Wells P-18A and well LMW-17). OGI collected 20 quality control samples, including ten duplicates (wells LMW-5R, LMW-6R, MW-1R, MW-13, P-8R, IMW-12.5R, HM-8, HM-24, pond sample location B-2 and river sample location MR-4), five equipment blanks and five field blanks.

Should you have any questions regarding the work completed by OGI, please do not hesitate to contact the undersigned at (702) 804-5545.

Sincerely,

OGI ENVIRONMENTAL, LLC

A handwritten signature in black ink, appearing to read "Robt N. Thompson".

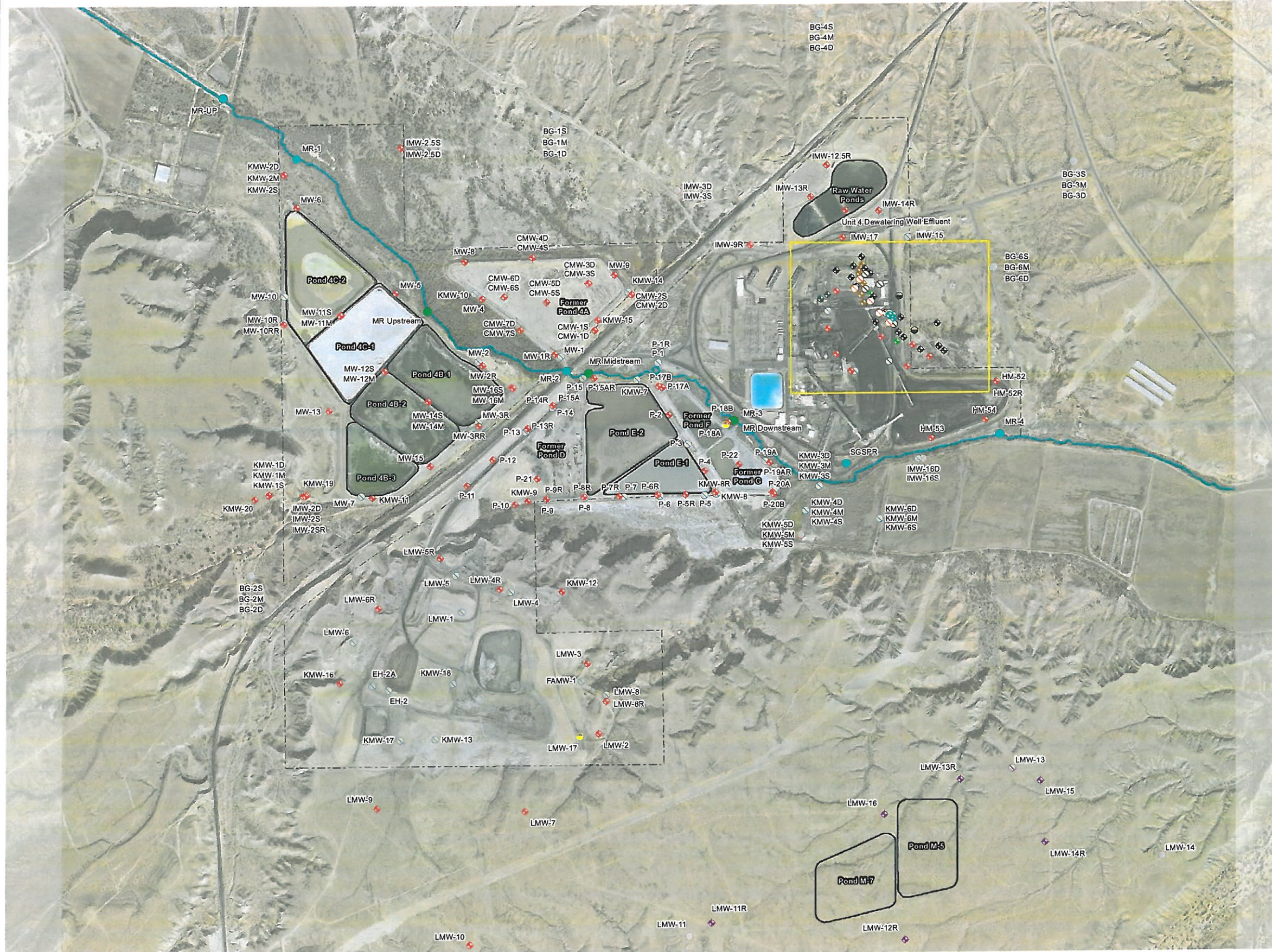
Robert N. Thompson, P.G, CEM
Managing Principal
Nevada CEM No. EM-1246 (exp. 1-5-15)

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations, and ordinances.

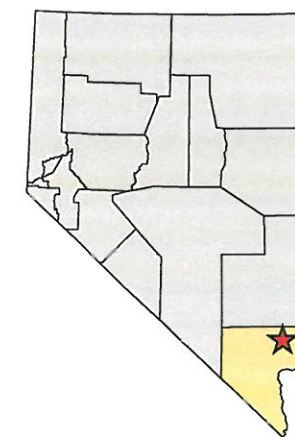
FIGURES

\\ny-fs1\Projects_F\20618_03_NVE_RGS_AOC_Imp\09\Active\14-GIS\GISWorkingData\MapData\Quantity\reports\2013Q3\Fig1A_2013Q3_MonitoringLocations.mxd © STANLEY CONSULTANTS



Notes:

1. Primary aerial flown January 2, 2009 and updated September 2010
2. Secondary aerial imagery provided by USDA-FSA Aerial Photography Field Office; published 2/22/2011; photographs taken late Spring 2010
3. Sampling locations current as of 1st Quarter 2013
4. MR Downstream gauging location is either the lower or upper culvert
5. Information for wells located within the yellow inset is available on Figure 1B
6. This figure shows all monitoring locations at Reid Gardner Station, not just those monitored this period



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REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
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At full size

1 inch = 1,100 feet

NVEnergy

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MONITORING LOCATIONS

2013 Semi-Annual GMR

AOC Implementation

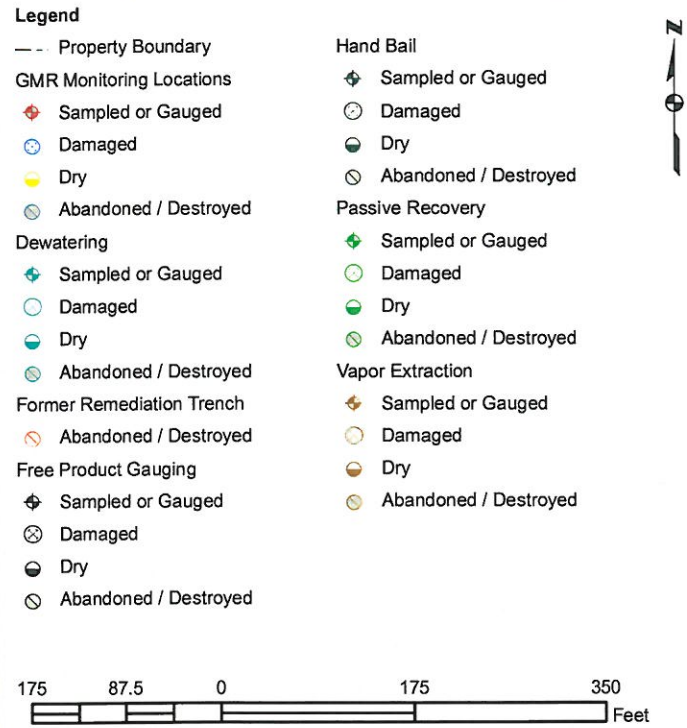
NV Energy

Reid Gardner Station

Moapa, NV

Figure 1A

\\nv-fs1\projects\F20618_03_NVE_RGS_AOC_Implement\GIS\WorkingData\MapQuartier\reports\2013Q3\F1B_201303_MonitoringLocations.mxd © STANLEY CONSULTANTS



Notes:

1. Aerial flown January 2, 2009 and updated September 2010
2. Sampling locations current as of 3rd Quarter 2013
3. This figure shows all monitoring locations at Reid Gardner Station, not just those monitored this period



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**STATION AREA
MONITORING LOCATIONS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 1B**

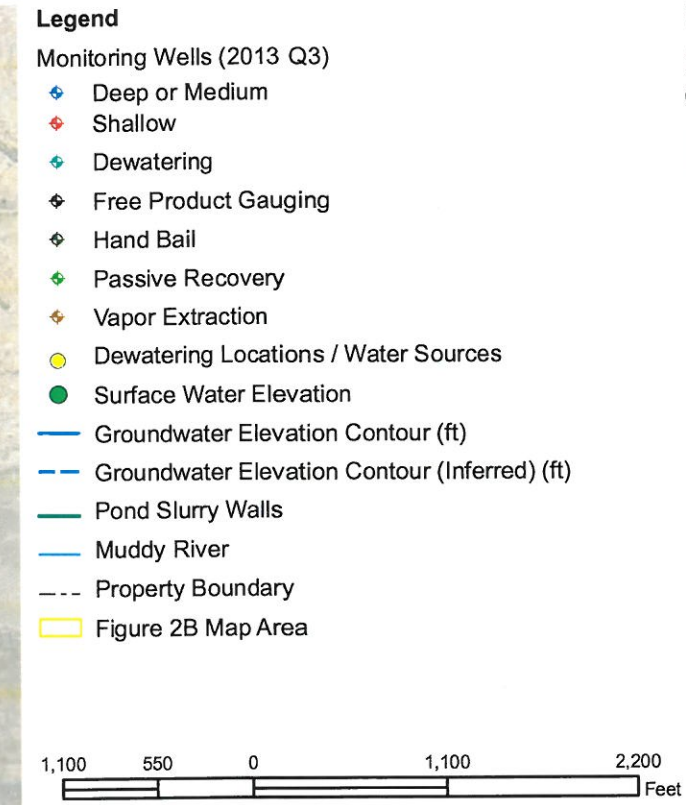
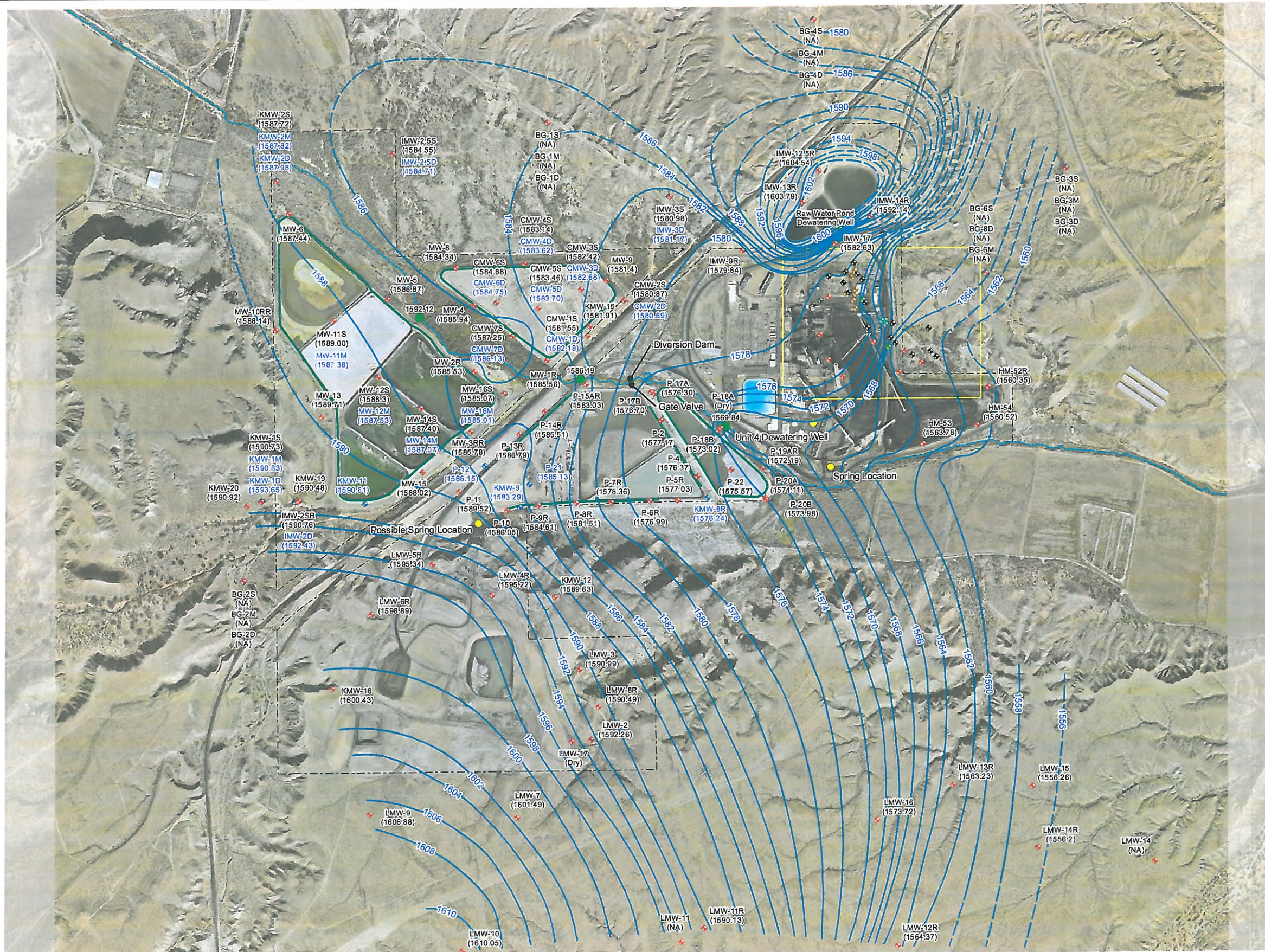
REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	1/13/14	CC	AE	TK

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At full size
1 inch = 175 feet



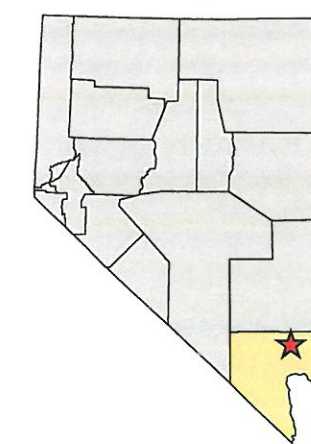
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\\nv-fs1\Projects\F20618_03_NVE_RGS_AOC_Implement\GIS\WorkingData\arcdata\reports\2013Q3\F2A_201303_GWEElevation.mxd © STANLEY CONSULTANTS



Notes:

1. Aerial flown January 2, 2009 by AeroTech Mapping; updated September 2010
2. Information for wells located within the yellow inset is available on Figure 2B
3. Shallow, medium, and deep well classifications are subject to change
4. Elevations at deep and medium wells are not contoured
5. Only wells gauged this quarter are shown in figure




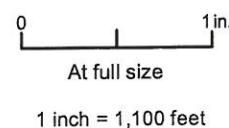


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SHALLOW GROUNDWATER ELEVATION
CONTOUR MAP
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 2A

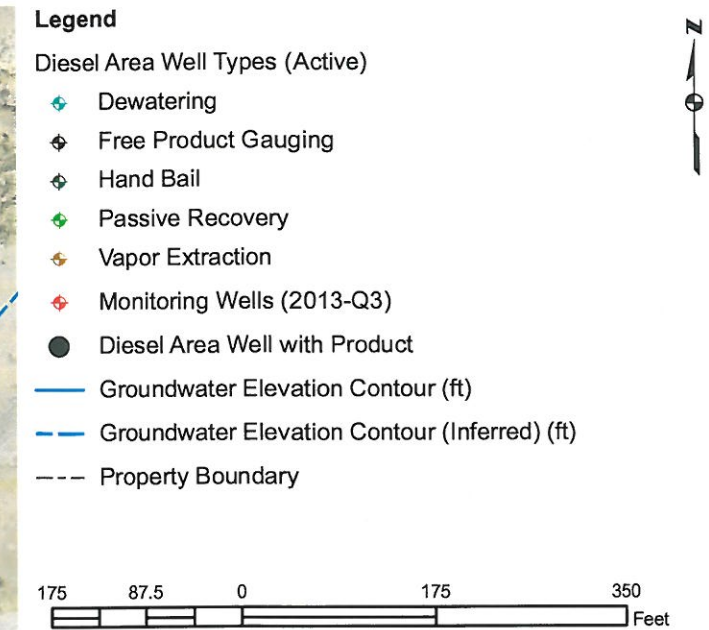
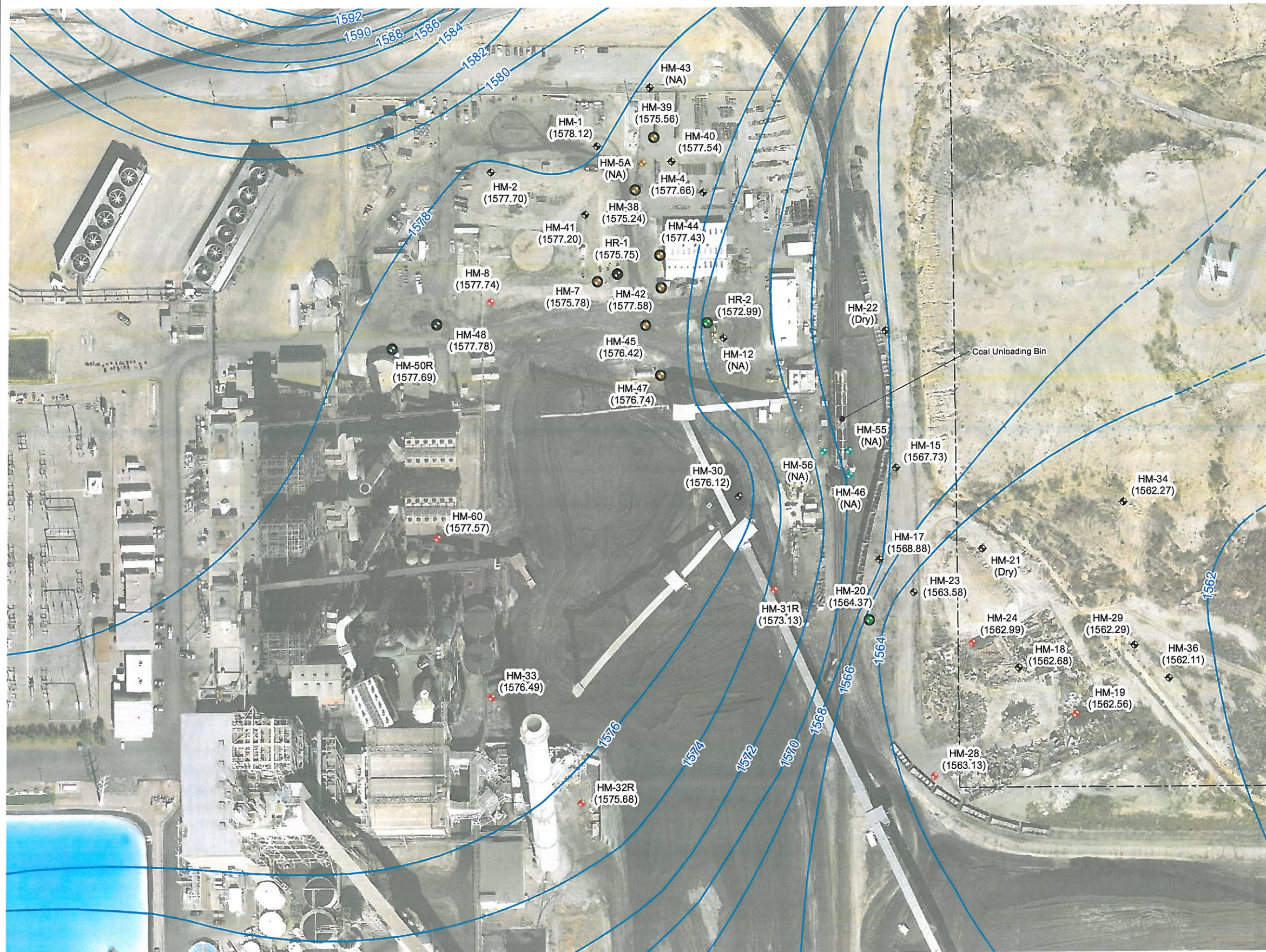
REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	1/13/14	CC	JO	TK/AE



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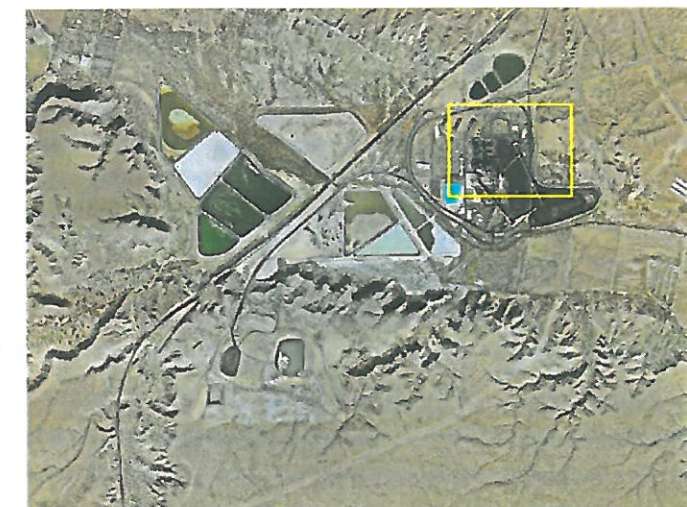
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\\sls\projects\20618_03_NVE_RGS_AOC_Implem\GIS\GISWorkingData\Map\QuarterlyReports\2013Q3\Fig2B_201303_GMElevation.mxd © STANLEY CONSULTANTS



Notes:

- Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
- Monitoring wells with free product were not used in contouring
- NA = Not Accessible



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STATION AREA
SHALLOW GROUNDWATER ELEVATION
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 2B

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	1/13/14	CC	JO	TK/AE

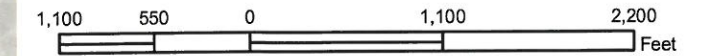
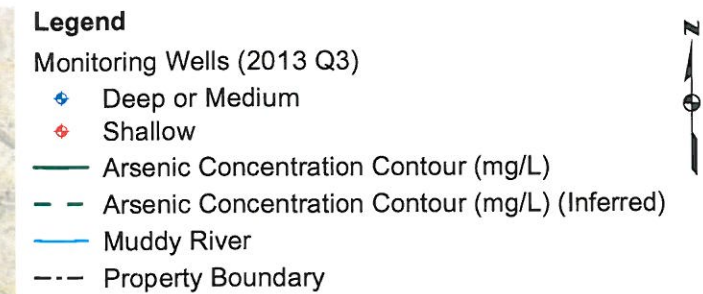
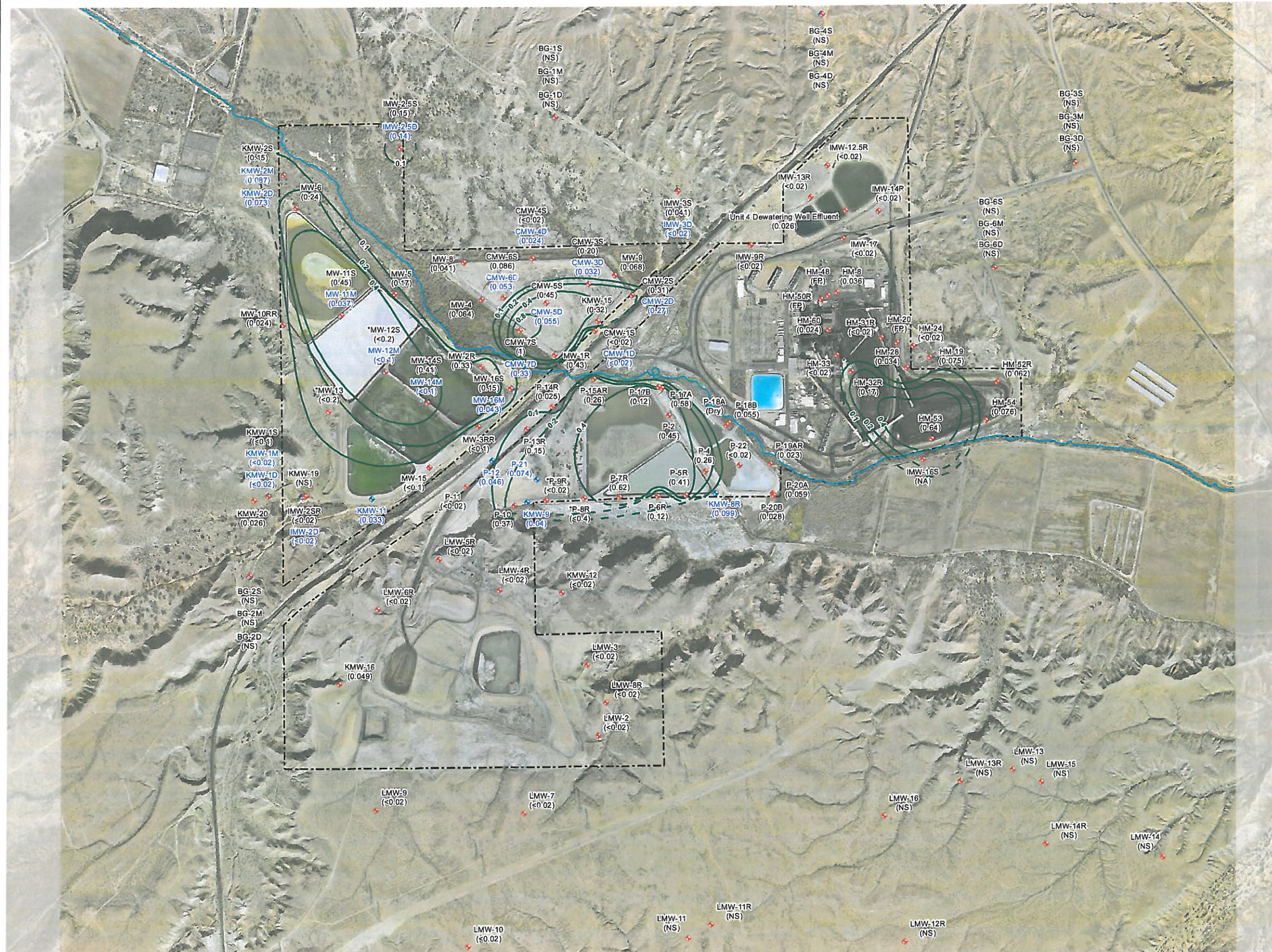
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At full size
1 inch = 175 feet



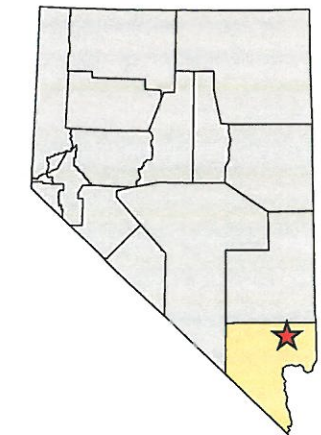
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\\sfs1\projects\20618_03_NVE_RGS_AOC_Implement\GIS\WorkingData\mxd\reports\2013Q3\Fig3_2013Q3_Arsenic.mxd © STANLEY CONSULTANTS



- Notes:
1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
 2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
 3. Shallow, medium, and deep well classifications are subject to change
 4. Concentrations at deep and medium wells are not contoured
 5. *MW-12S, MW-13, P-8R not considered for contouring due to high detection thresholds; P-9R data not considered for contouring
 6. NS = well not gauged or sampled, NA = no well access, FP = well with free product



January 2014

DISSOLVED ARSENIC CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 3

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	1/13/14	CC	JO	TK/AE

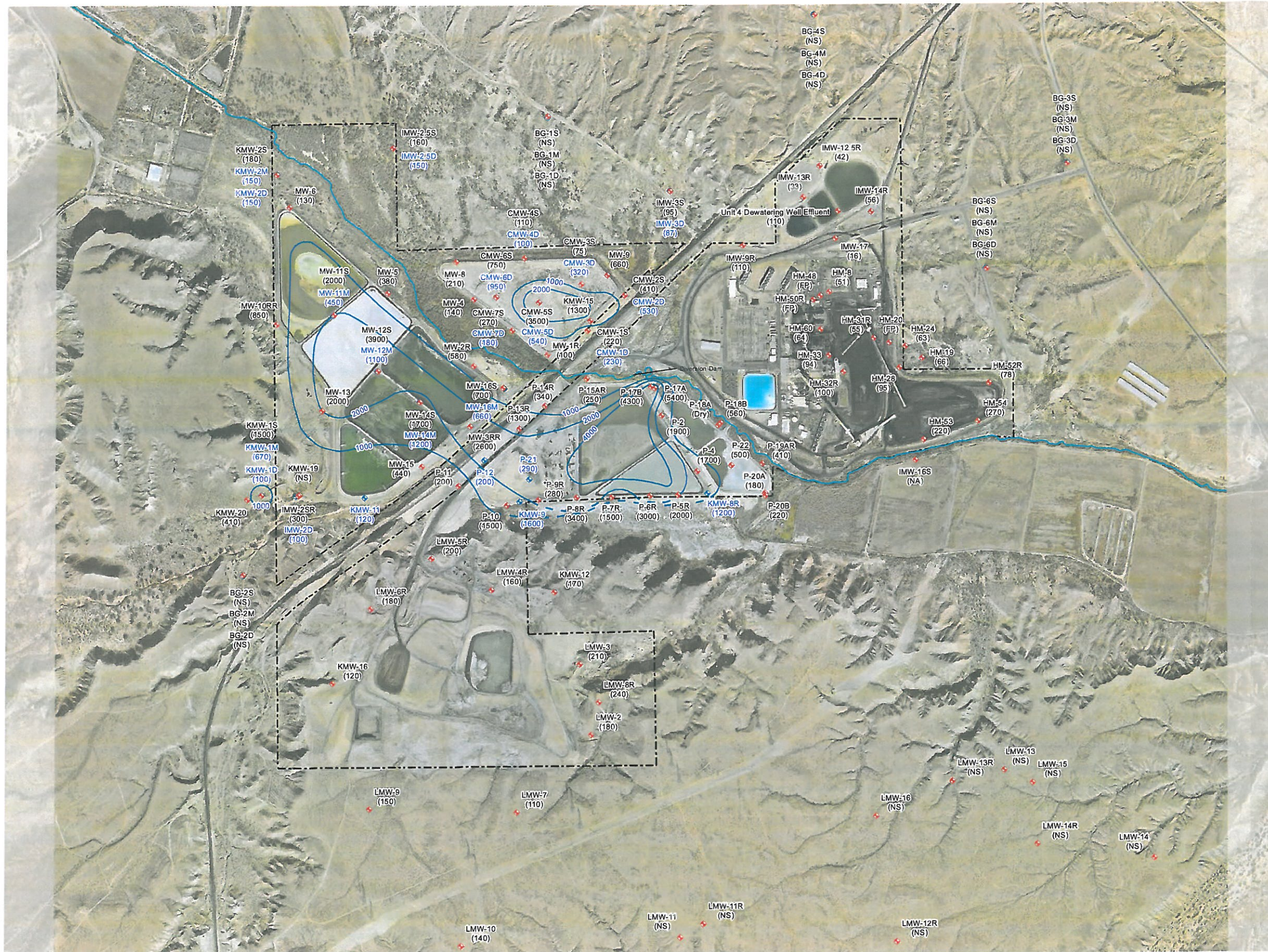
0 1 in.
At full size
1 inch = 1,100 feet



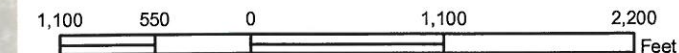
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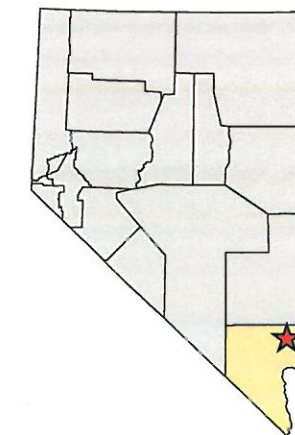
\\gvs1\Projects\F20618 03 NVE RGS AOC Imp\09\Active\14-GIS\GISWorkingData\magnesium\reports\201303\Fig4_201303_Magnesium.mxd © STANLEY CONSULTANTS



- Legend**
- Monitoring Wells (2013 Q3)
- Deep or Medium
 - Shallow
 - Magnesium Concentration Contour (mg/L)
 - Magnesium Concentration Contour (mg/L) (Inferred)
 - Muddy River
 - Property Boundary



- Notes:**
- Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
 - When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
 - Shallow, medium, and deep well classifications are subject to change
 - Concentrations at deep and medium wells are not contoured
 - *P-9R data not considered for contouring
 - NS = well not gauged or sampled, NA = no well access, FP = well with free product



January 2014

DISSOLVED MAGNESIUM CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 4

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	1/13/14	CC	JO	TK/AE

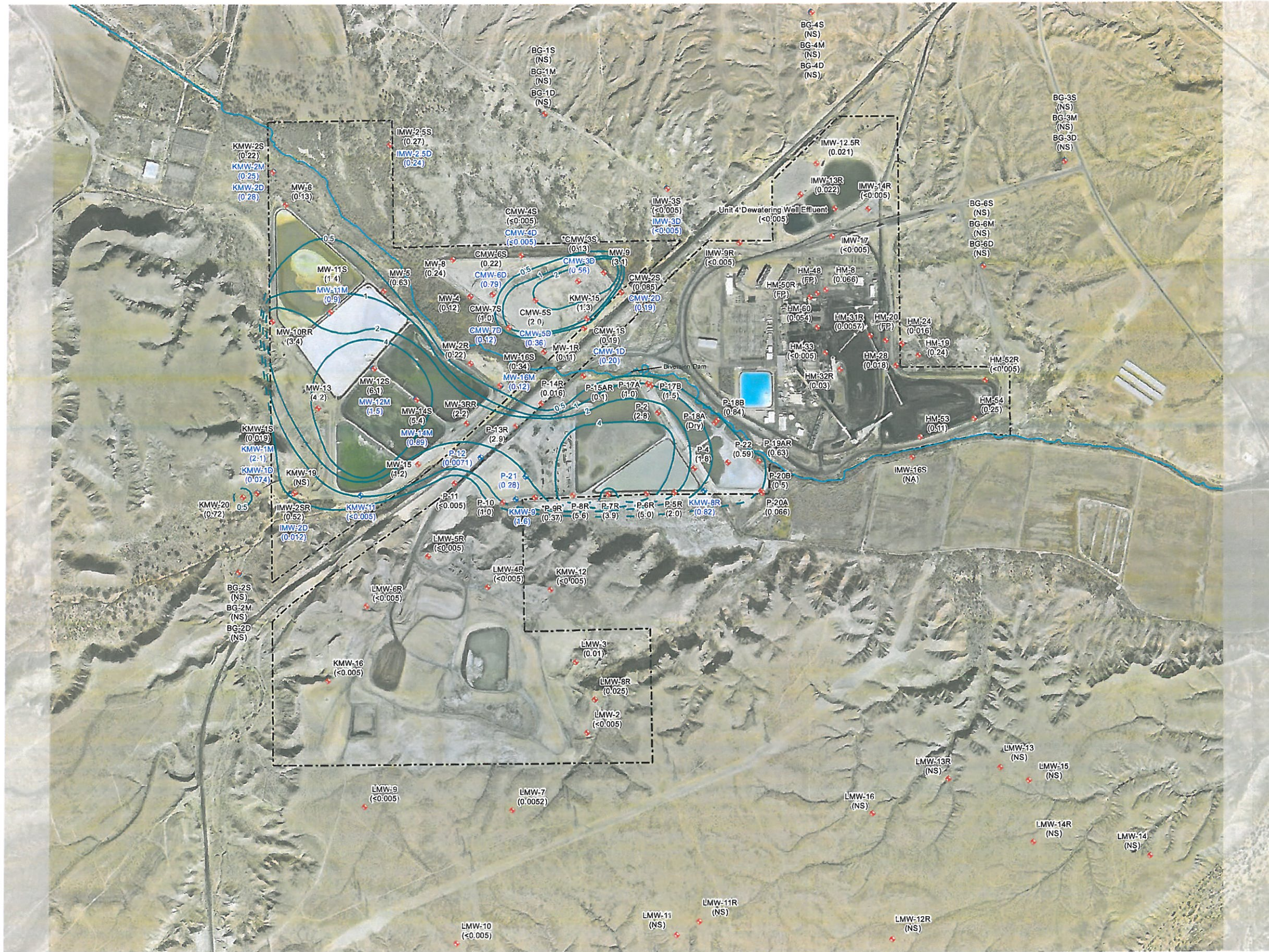
0 1 in.
At full size
1 inch = 1,100 feet



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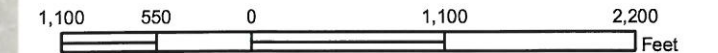
\\nv\projects\F20618_03_NVE_RGS_AOC_Implement\GIS\GISWorkingData\mxd\quarterlyreports\2013Q3\FH5_2013Q3_Manganese.mxd © STANLEY CONSULTANTS



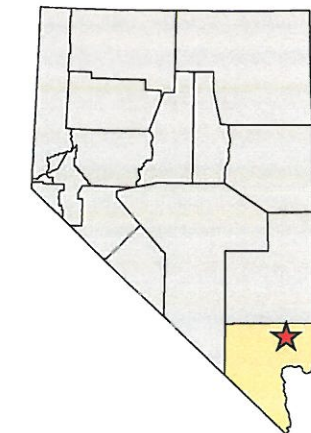
Legend

Monitoring Wells (2013 Q3)

- Deep or Medium
- Shallow
- Manganese Concentration Contour (mg/L)
- Manganese Concentration Contour (mg/L) (Inferred)
- Muddy River
- Property Boundary



- Notes:**
1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
 2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
 3. Shallow, medium, and deep well classifications are subject to change
 4. Concentrations at deep and medium wells are not contoured
 5. *P-9R, CMW-3S data not considered for contouring
 6. NS = well not gauged or sampled, NA = no well access, FP = well with free product



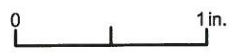


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**DISSOLVED MANGANESE CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 5**

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	1/13/14	CC	JO	TK/AE



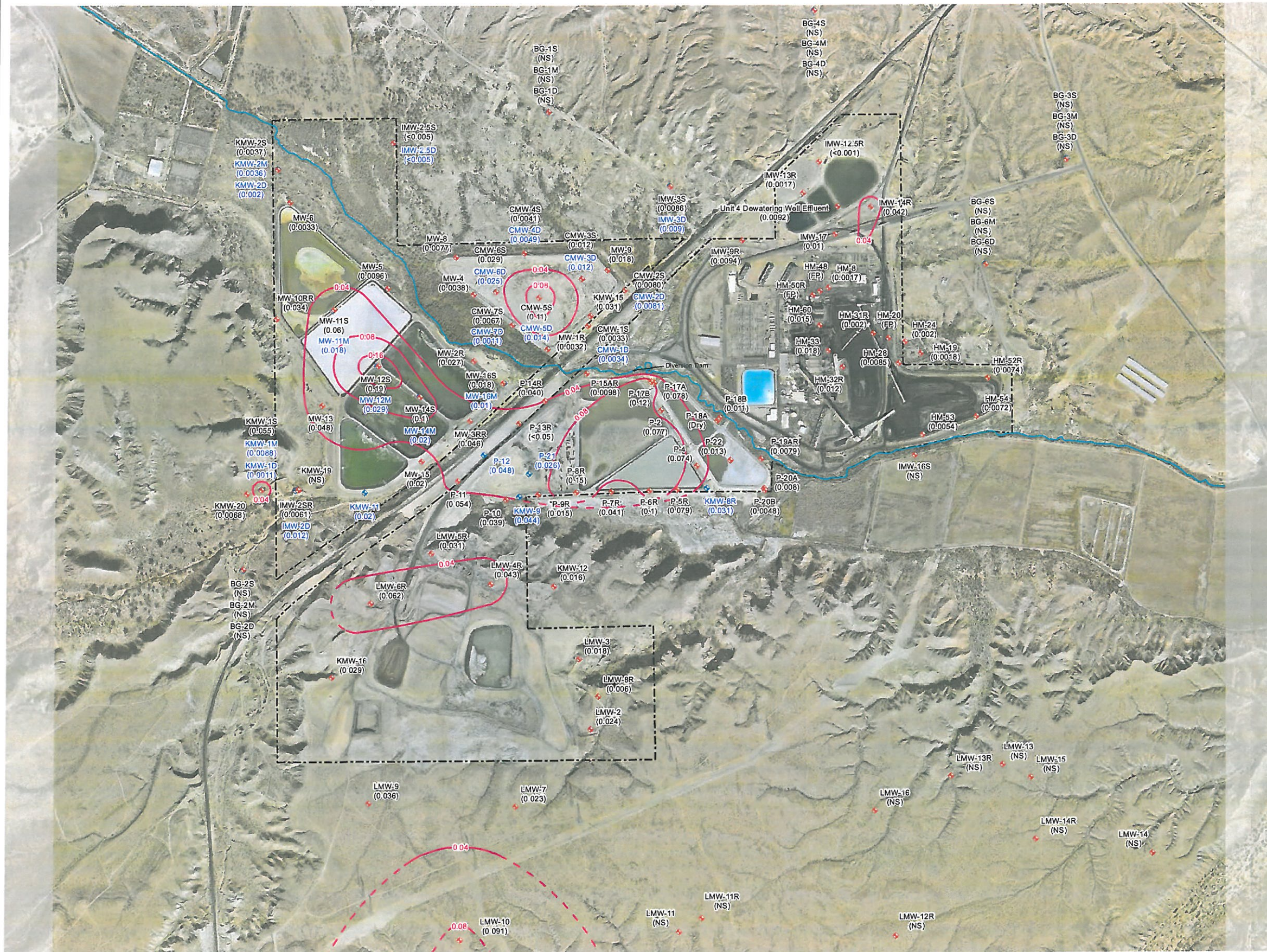
At full size
1 inch = 1,100 feet



20618.08.09

REV.
0

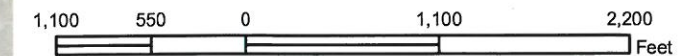
\\nv-fs1\Projects\F20618 03 NVE RGS AOC Imp\09\GIS\WorkingData\Quarterly\reports\2013\3Q\Fig 201303 Selenium.mxd © STANLEY CONSULTANTS



Legend

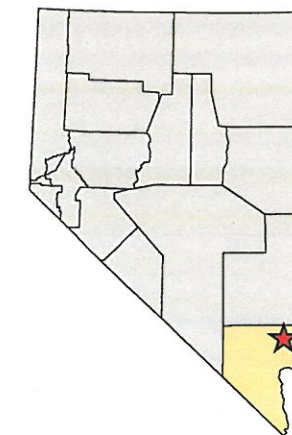
Monitoring Wells (2013 Q3)

- ◆ Deep or Medium
- ◆ Shallow
- Selenium Concentration Contour (mg/L)
- - - Selenium Concentration Contour (mg/L) (Inferred)
- Muddy River
- - - Property Boundary



Notes:

1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
3. Shallow, medium, and deep well classifications are subject to change
4. Concentrations in deep and medium wells not contoured
5. *P-9R not considered for contouring
6. NS = well not gauged or sampled, NA = no well access, FP = well with free product



January 2014

DISSOLVED SELENIUM CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 6

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	1/13/14	CC	JO	TK/AE

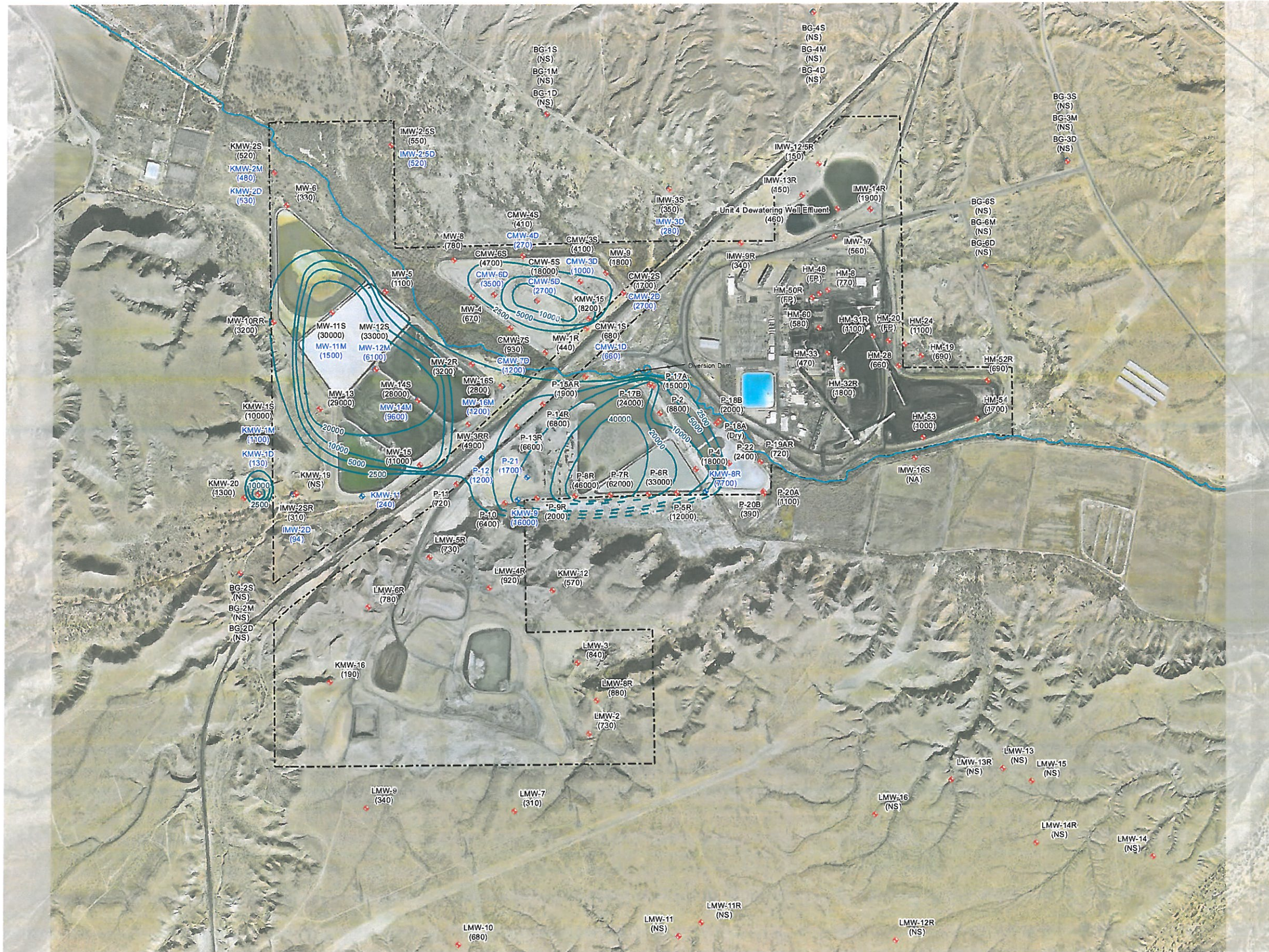
0 1 in.
At full size
1 inch = 1,100 feet



20618.08.09

REV.
0

\\cvs\Projects\F20618 03 NVE RGS AOC Imp09\Active\14-GIS\GISWorkingData\reidgardner\reports\201303\Fig7 201303 Sodium.mxd © STANLEY CONSULTANTS



Legend

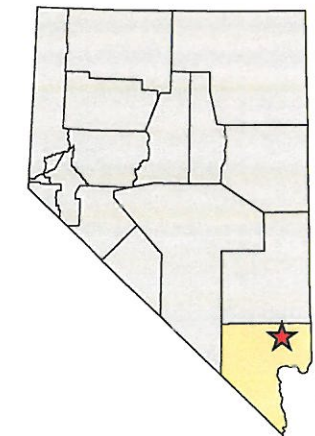
Monitoring Wells (2013 Q3)

- Deep or Medium
- Shallow
- Sodium Concentration Contour (mg/L)
- Sodium Concentration Contour (mg/L) (Inferred)
- Muddy River
- Property Boundary

1,100 550 0 1,100 2,200 Feet

Notes:

- Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
- When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
- Shallow, medium, and deep well classifications are subject to change
- Concentrations in deep and medium wells not contoured
- *P-9R data not considered for contouring
- NS = well not gauged or sampled, NA = no well access, FP = well with free product



January 2014

DISSOLVED SODIUM CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 7

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	1/13/14	CC	JO	TK/AE

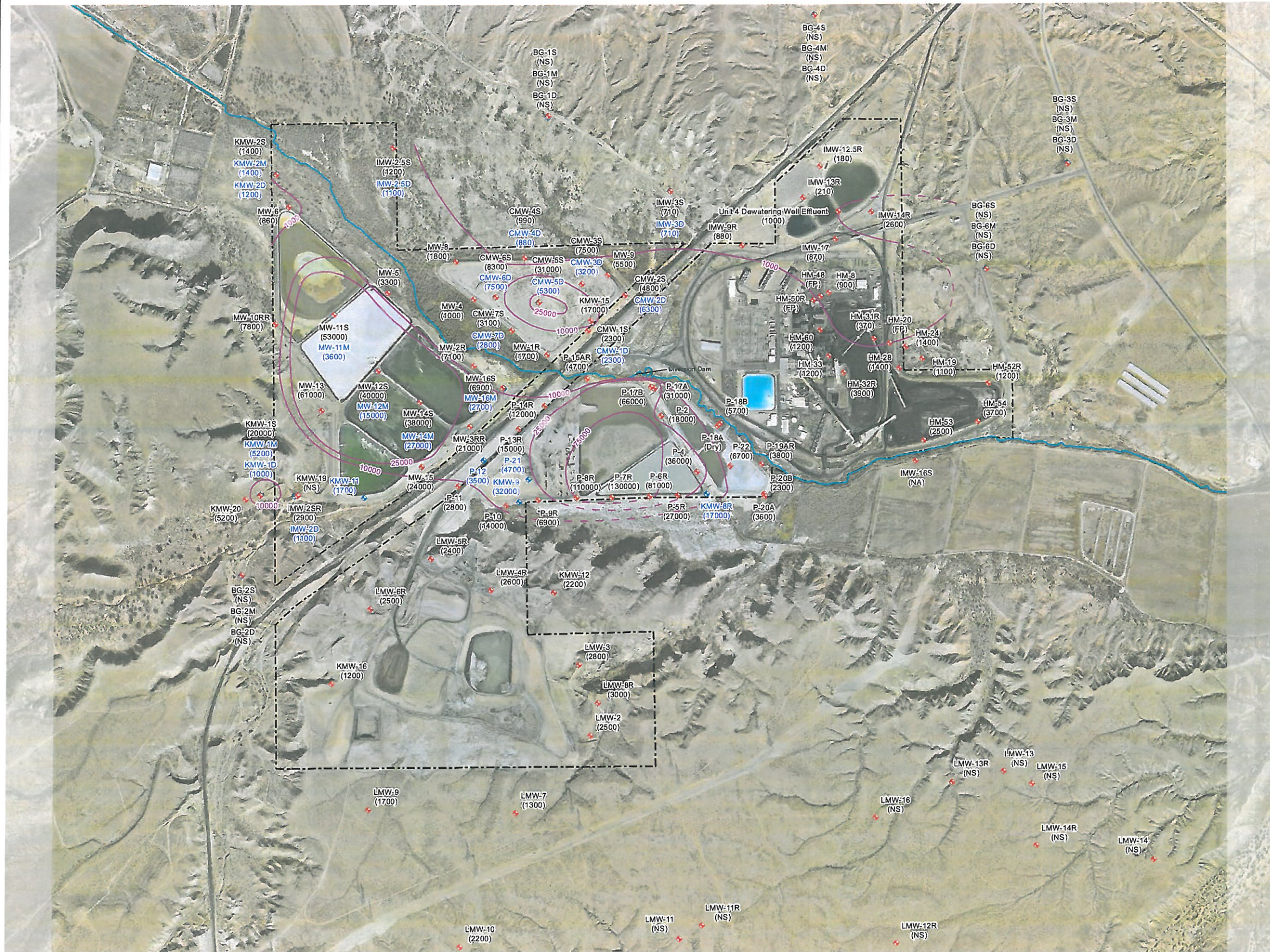
0 1 in.
At full size
1 inch = 1,100 feet



20618.08.09

REV.
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\\gis1\Projects\F20618_03_NVE_RGS_AOC_Imp\09\GIS\GISWorkingData\Quarterly\reports\201303\Fig8_201303_Sulfate.mxd © STANLEY CONSULTANTS

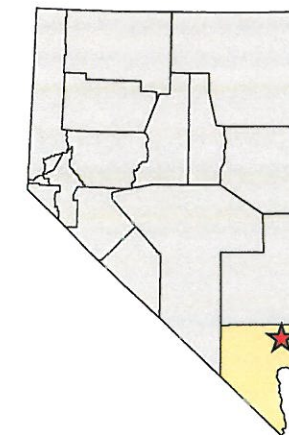


Legend

Monitoring Wells (2013 Q3)

- Deep or Medium
- Shallow
- Sulfate Concentration Contour (mg/L)
- Sulfate Concentration Contour (mg/L) (Inferred)
- Muddy River
- Property Boundary

- Notes:
1. Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
 2. When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
 3. Shallow, medium, and deep well classifications are subject to change
 4. Concentrations of deep and medium wells not contoured
 5. *P-9R data not considered for contouring
 6. NS = well not gauged or sampled, NA = no well access, FP = well with free product



January 2014

DISSOLVED SULFATE CONCENTRATION
SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 8

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	1/13/14	CC	JO	TK/AE

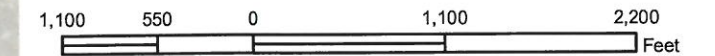
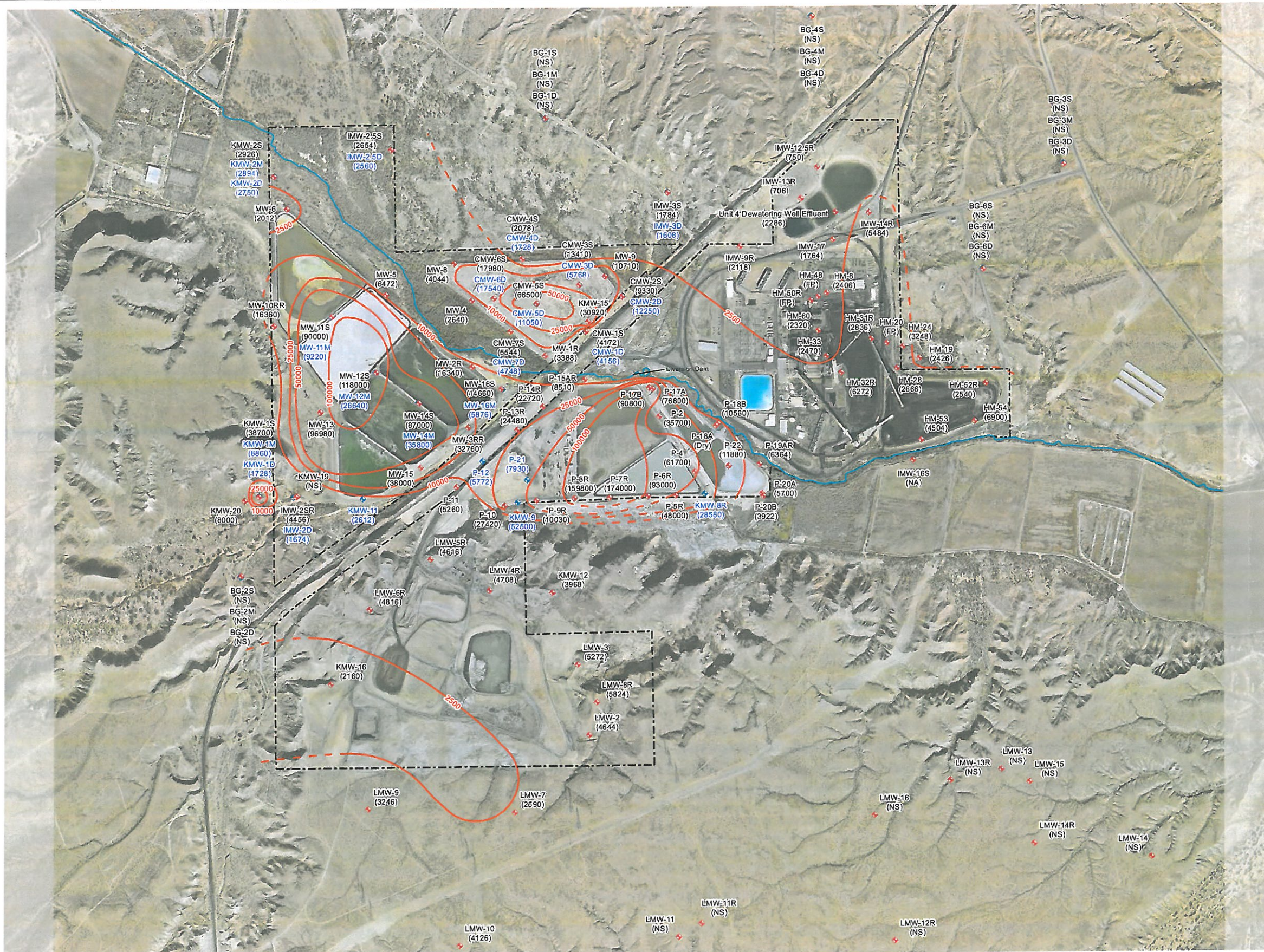
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At full size
1 inch = 1,100 feet



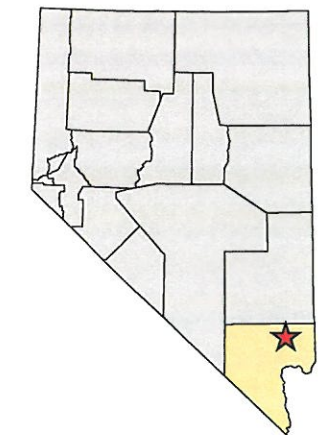
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- Notes:
- Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
 - When concentration value is less than the laboratory detection limit, the value used for contouring is 1/2 the laboratory detection limit
 - Shallow, medium, and deep well classifications are subject to change
 - Concentrations of deep and medium wells not contoured
 - *P-9R not considered for contouring
 - NS = well not gauged or sampled, NA = no well access, FP = well with free product



January 2014

TOTAL DISSOLVED SOLIDS (TDS)
CONCENTRATION - SHALLOW WELLS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 9

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		Submittal to NDEP	1/13/14	CC	JO	TK/AE

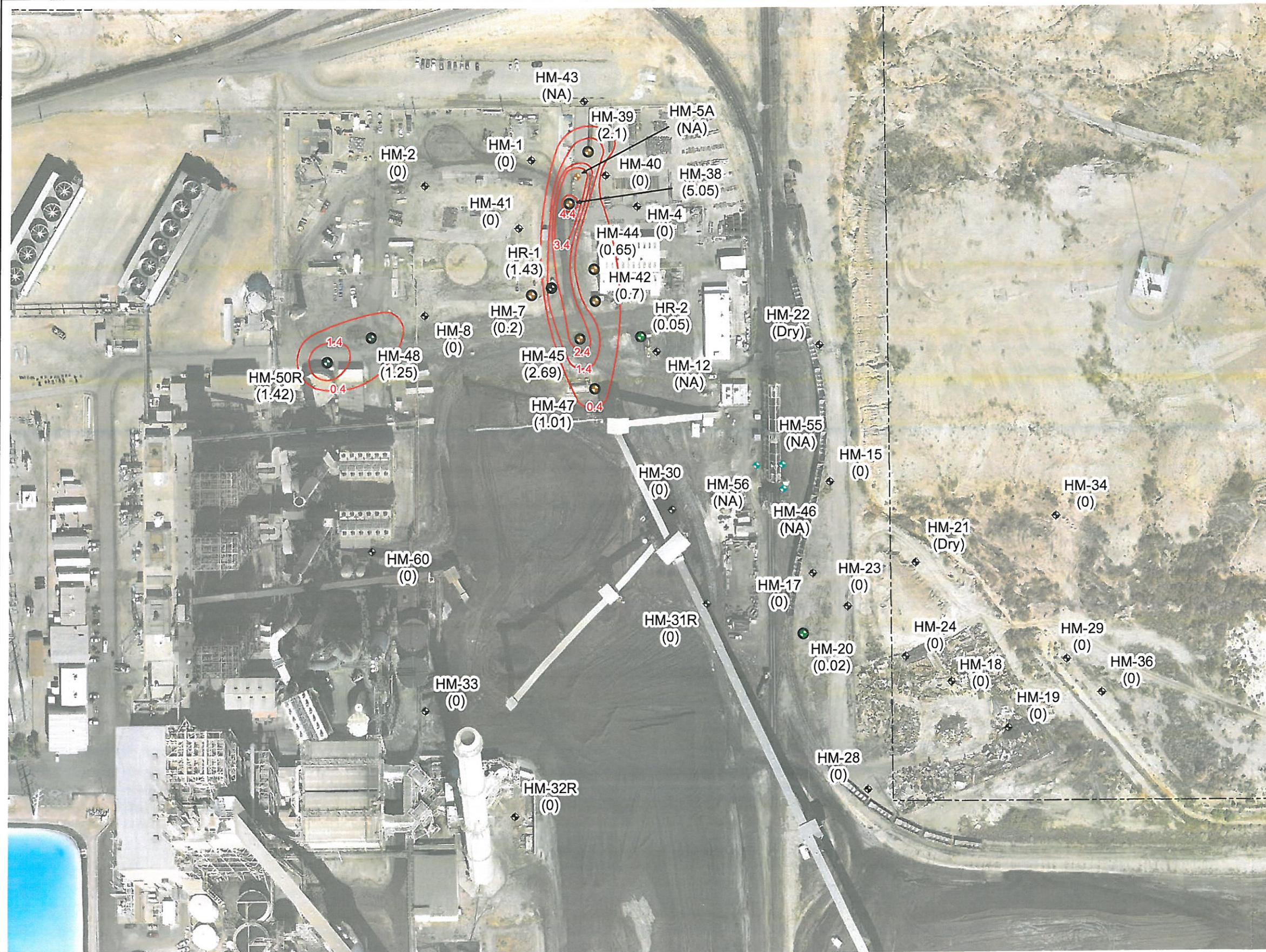
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At full size
1 inch = 1,100 feet



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REV.
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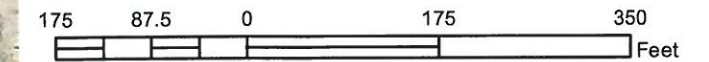
\\cvs-161\Projects_F\20618 09 NVE RGS AOC Implementation\GIS\WorkingData\MapData\figures\201303\Fig10 201303 ProductThickness.mxd © STANLEY CONSULTANTS



Legend

Diesel Area Well Types (Active)

- Dewatering
- Free Product Gauging
- Hand Bail
- Passive Recovery
- Vapor Extraction
- Diesel Area Well with Product
- Product Thickness Contour (ft)
- Property Boundary



Notes:

- Aerial flown January 2, 2009 by AeroTech Mapping and updated September 2010
- Wells HR-4, T1-PA, T1-S, T2-S, T3-S, T4-S, T5-S were not gauged (too many hoses)




Stanley Consultants INC.

January 2014

PRODUCT THICKNESS
2013 Semi-Annual GMR
AOC Implementation
NV Energy
Reid Gardner Station
Moapa, NV
Figure 10

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
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0 1 in.
At full size
1 inch = 175 feet



20618.08.09

REV.
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TABLES

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
Unit 1,2,3 Pond Wells

Parameter Name	P-11 8/19/2013	P-10 8/19/2013	P-12 8/19/2013	P-13R 8/19/2013	P-14R 8/19/2013	P-21 8/19/2013	P-9R 8/19/2013	P-8R 8/20/2013	P-8R Duplicate 8/20/2013	P-15AR 8/19/2013
Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
General Chemistry										
pH (field)	7.67	7.46	7.85	8.12	7.84	7.68	7.56	7.7	NA	7.44
General Chemistry (umhos/cm)										
Specific Conductance	8540	27,300	6680	24,700	24,600	8700	11,310	93,600	91,600	9530
General Chemistry (mg/L)										
Alkalinity - Bicarbonate	115	NA	NA	NA	NA	NA	NA	859	968	704
Alkalinity - Carbonate	< 20	NA	NA	NA	NA	NA	NA	< 20	< 20	< 20
Chloride	500	4500	460	3200	3800	720	1600	6900	8000	540
Nitrogen, Nitrate (as N)	4.1	< 0.5	1.9	< 0.5	1.1	0.88	< 0.5	< 0.5	< 0.5	< 0.5
Sulfate	2800	14,000	3500	15,000	12,000	4700	6900	110,000	120,000	4700
Sulfide	NA	< 0.05	NA	NA	NA	NA	< 0.05	< 0.05	< 0.05	NA
Sulfite	NA	< 2	NA	NA	NA	NA	< 2	< 2	< 2	NA
Suspended Solids (residue, non-filterable)	NA	2237	NA	NA	NA	NA	902	80	274	NA
Total Dissolved Solids (residue, filterable)	5260	27,420	5772	24,480	22,720	7930	10,030	159,800	99,200	8510
Total Organic Carbon	NA	6.3	NA	NA	NA	NA	1.2	21	19	NA
General Chemistry (NTU)										
Turbidity	NA	1790	NA	NA	NA	NA	427	83.5	159	NA
Metals (mg/L)										
Arsenic, Dissolved	< 0.02	0.37	0.046	0.15	0.025	0.074	< 0.02	< 0.4	< 0.2	0.26
Beryllium, Dissolved	< 0.003	< 0.006	< 0.003	< 0.006	< 0.006	< 0.003	< 0.003	< 0.018	< 0.006	< 0.003
Boron, Dissolved	6.3	50	5.3	100	140	12	20	670	710	13
Cadmium, Dissolved	< 0.003	< 0.006	< 0.003	< 0.006	< 0.006	< 0.003	< 0.003	< 0.018	< 0.006	< 0.003
Calcium, Dissolved	450	500	390	550	540	460	450	580	550	460
Chromium, Dissolved	0.015	< 0.01	0.022	< 0.01	< 0.01	< 0.005	< 0.005	< 0.03	< 0.01	< 0.005
Fluoride, Dissolved	NA	4.1	NA	NA	NA	NA	< 0.5	11	22	NA
Magnesium, Dissolved	200	1500	200	1300	340	290	280	3400	3700	250
Manganese, Dissolved	< 0.005	1.0	0.0071	2.9	0.016	0.28	0.37	5.6	5.7	0.10
Molybdenum, Dissolved	0.075	0.97	0.097	1.9	1.1	0.14	0.12	0.65	0.66	0.028
Nickel, Dissolved	< 0.005	< 0.01	< 0.005	0.45	0.040	< 0.005	0.0072	0.30	0.29	0.0054
Potassium, Dissolved	85	370	57	760	420	62	110	1200	1200	52
Selenium, Dissolved	0.054	0.039	0.048	< 0.05	0.040	0.026	0.015	0.15	0.13	0.0098
Sodium, Dissolved	720	6400	1200	6600	6800	1700	2000	46,000	26,000	1900
Strontium, Dissolved	NA	14	NA	NA	NA	NA	10	12	16	NA
Titanium, Dissolved	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.03	< 0.01	< 0.005
Vanadium, Dissolved	< 0.003	< 0.006	< 0.003	< 0.006	< 0.006	< 0.003	< 0.003	< 0.018	< 0.006	< 0.003
Zinc, Dissolved	NA	< 0.01	NA	NA	NA	NA	< 0.005	< 0.03	< 0.01	NA

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
Mesa Wells

[illegible]

Table 1 - Monitoring Well Sampling Results

3rd Quarter 2013
 NV Energy - Reid Gardner Station
 Unit 1,2,3 Pond Wells

IMW-165
 8/22/2013

Parameter Name	P-7R 8/20/2013	P-6R 8/20/2013	P-5R 8/20/2013	KMW-8R 8/19/2013	P-2 8/19/2013	P-4 8/19/2013	P-17A 8/19/2013	P-17B 8/19/2013	P-18A 8/19/2013	P-18B 8/19/2013	P-22 8/19/2013	P-19AR 8/19/2013	P-20A 8/19/2013	P-20B 8/19/2013	Result
General Chemistry															
ph (field)	7.7	7.51	7.52	7.61	7.51	7.7	7.4	7.34		7.47	7.62	7.93	7.92	7.81	
General Chemistry (µmhos/cm)															
Specific Conductance	106,600	80,600	42,600	24,200	35,900	51,800	52,800	65,600		11,180	12,630	6880	6490	4360	
General Chemistry (mg/L)															
Alkalinity - Bicarbonate	NA	NA	NA	NA	NA	NA	NA	1565		412	NA	196	NA	NA	
Alkalinity - Carbonate	NA	NA	NA	NA	NA	NA	NA	< 20		< 20	NA	< 20	NA	NA	
Chloride	5100	5400	6600	2400	6400	6400	5100	5000		1200	1500	730	410	420	
Nitrogen, Nitrate (as N)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Sulfate	130,000	81,000	27,000	17,000	18,000	36,000	31,000	66,000		5700	6700	3800	3600	2300	
Sulfide	< 0.05	< 0.05	< 0.05	NA	< 0.05	< 0.05	NA	NA		NA	NA	NA	NA	NA	
Sulfite	< 2	< 2	< 2	NA	< 2	< 2	NA	NA		NA	NA	NA	NA	NA	
Suspended Solids (residue, non-filterable)	610	30	125	NA	121	46	NA	NA		NA	NA	NA	NA	NA	
Total Dissolved Solids (residue, filterable)	174,000	93,000	48,000	28,580	35,700	61,700	76,800	90,800		10,560	11,880	6364	5700	3922	
Total Organic Carbon	28	21	10	NA	15	15	NA	NA		NA	NA	NA	NA	NA	
General Chemistry (NTU)															
Turbidity	30.9	34.2	45.8	NA	61.5	21.1	NA	NA		NA	NA	NA	NA	NA	
Metals (mg/L)															
Arsenic, Dissolved	0.62	0.12	0.41	0.099	0.45	0.26	0.58	0.12		0.055	< 0.02	0.023	0.059	0.028	
Beryllium, Dissolved	< 0.015	< 0.018	< 0.009	< 0.006	< 0.006	< 0.012	< 0.009	< 0.015		< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	
Boron, Dissolved	540	270	36	71	52	200	85	160		9.5	13	3.6	6.6	2.7	
Cadmium, Dissolved	< 0.015	< 0.018	< 0.009	< 0.006	< 0.006	< 0.012	< 0.009	< 0.015		< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	
Calcium, Dissolved	1100	680	500	560	500	510	580	540		520	510	660	380	450	
Chromium, Dissolved	< 0.025	< 0.03	< 0.015	< 0.01	< 0.01	< 0.02	< 0.015	< 0.025		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Fluoride, Dissolved	30	82	30	NA	14	2.9	NA	NA		NA	NA	NA	NA	NA	
Magnesium, Dissolved	1500	3000	2000	1200	1900	1700	5400	4300		560	500	410	180	220	
Manganese, Dissolved	3.9	5.0	2.0	0.82	2.8	1.8	1.0	1.5		0.84	0.59	0.63	0.066	0.50	
Molybdenum, Dissolved	< 0.5	1.2	0.65	0.35	1.8	1.2	0.041	0.28		0.20	0.082	0.097	0.12	0.10	
Nickel, Dissolved	0.11	0.058	< 0.015	< 0.01	0.012	0.050	0.027	0.027		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Potassium, Dissolved	1000	1200	420	140	680	730	260	280		65	78	66	88	48	
Selenium, Dissolved	0.041	0.10	0.079	0.031	0.077	0.074	0.078	0.12		0.011	0.013	0.0079	0.0080	0.0048	
Sodium, Dissolved	62,000	33,000	12,000	7700	8800	18,000	15,000	24,000		2000	2400	720	1100	390	
Strontium, Dissolved	15	16	11	NA	12	9.9	NA	NA		NA	NA	NA	NA	NA	
Titanium, Dissolved	< 0.025	< 0.03	< 0.015	< 0.01	< 0.01	< 0.02	< 0.015	< 0.025		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
Vanadium, Dissolved	< 0.015	< 0.018	< 0.009	< 0.006	< 0.006	< 0.012	< 0.009	< 0.015		< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	
Zinc, Dissolved	< 0.025	< 0.03	< 0.015	NA	< 0.01	< 0.02	NA	NA		NA	NA	NA	NA	NA	

Not Sampled, Dry

Not Sampled, Not Accessible

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
Unit 4 Pond Wells

UNIT 4B/C Pond Area

Parameter Name	Result	Result	Result	Result	Result	Result	Result	Result	Result
General Chemistry									
pH (field)	7.65	7.43	7.58	7.47	7.44	7.67	NA	7.66	
General Chemistry (µmhos/cm)									
Specific Conductance	3650	3780	3650	17,170	2800	69,700	67,200	3040	
General Chemistry (mg/L)									
Alkalinity - Bicarbonate	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity - Carbonate	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	390	380	360	2700	270	2500	2700	230	
Nitrogen, Nitrate (as N)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1
Sulfate	1400	1400	1200	7800	860	61,000	57,000	1700	
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfite	NA	NA	NA	NA	NA	NA	NA	NA	NA
Suspended Solids (residue, non-filterable)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (residue, filterable)	2926	2894	2750	16,360	2012	96,980	92,000	2612	
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry (NTU)									
Turbidity	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/L)									
Arsenic, Dissolved	0.15	0.087	0.073	0.024	0.24	< 0.2	< 0.2	0.033	
Beryllium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	< 0.006	< 0.003	
Boron, Dissolved	1.1	1.1	1.3	7.9	0.91	40	38	1.8	
Cadmium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	< 0.006	< 0.003	
Calcium, Dissolved	160	150	140	550	91	560	540	300	
Chromium, Dissolved	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005	< 0.01	< 0.01	0.081	
Fluoride, Dissolved	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium, Dissolved	180	150	150	850	130	2000	1900	120	
Manganese, Dissolved	0.22	0.25	0.28	3.4	0.13	4.2	4.1	< 0.005	
Molybdenum, Dissolved	0.026	0.025	0.032	0.73	0.022	0.16	0.15	0.14	
Nickel, Dissolved	< 0.005	< 0.005	< 0.005	0.087	< 0.005	0.022	0.021	< 0.005	
Potassium, Dissolved	41	36	29	200	34	410	400	21	
Selenium, Dissolved	0.0037	0.0036	0.0020	0.034	0.0033	0.048	0.048	0.020	
Sodium, Dissolved	520	480	530	3200	330	29,000	28,000	240	
Strontium, Dissolved	NA	NA	NA	NA	NA	NA	NA	NA	NA
Titanium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01	< 0.005	
Vanadium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	< 0.006	< 0.003	
Zinc, Dissolved	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
Unit 4 Pond Wells

UNIT 4B/C Pond Area

Parameter Name	MW-11S 8/22/2013	MW-11M 8/22/2013	MW-12S 8/22/2013	MW-12M 8/22/2013	MW-14S 8/22/2013	MW-14M 8/22/2013	MW-15 8/22/2013	MW-2R 8/22/2013	MW-3RR 8/22/2013	MW-16S 8/22/2013	MW-16M 8/22/2013
General Chemistry	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
pH (field)	7.77	7.58	7.74	7.56	7.7	7.95	7.93	7.12	7.53	7.69	7.82
General Chemistry (µmhos/cm)											
Specific Conductance	71,200	10,820	39,900	27,400	79,400	33,500	36,700	18,070	28,500	15,810	6560
General Chemistry (mg/L)											
Alkalinity - Bicarbonate	NA	NA	NA	NA	NA	NA	NA	775	NA	NA	NA
Alkalinity - Carbonate	NA	NA	NA	NA	NA	NA	NA	< 20	NA	NA	NA
Chloride	9100	2000	19,000	4000	11,000	2300	2100	3100	4600	2100	880
Nitrogen, Nitrate (as N)	< 0.5	< 0.5	1.4	< 0.5	0.60	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Sulfate	53,000	3600	40,000	15,000	38,000	27,000	24,000	7100	21,000	6900	2700
Sulfide	NA	NA	NA	NA	NA	NA	NA	< 0.05	< 0.05	NA	NA
Sulfite	NA	NA	NA	NA	NA	NA	NA	< 2	< 2	NA	NA
Suspended Solids (residue, non-filterable)	NA	NA	NA	NA	NA	NA	NA	191	39	NA	NA
Total Dissolved Solids (residue, filterable)	90,000	9220	118,000	26,640	87,000	35,800	38,000	16,340	32,760	14,660	5876
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	6.2	14	NA	NA
General Chemistry (NTU)											
Turbidity	NA	NA	NA	NA	NA	NA	NA	131	43.0	NA	NA
Metals (mg/L)											
Arsenic, Dissolved	0.45	0.037	< 0.2	< 0.1	0.41	< 0.1	< 0.1	0.33	< 0.1	0.15	0.043
Beryllium, Dissolved	< 0.015	< 0.003	< 0.015	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Boron, Dissolved	63	2.6	250	8.8	200	18	21	8.7	29	14	6.6
Cadmium, Dissolved	< 0.015	< 0.003	< 0.015	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Calcium, Dissolved	570	550	620	450	560	440	440	340	460	480	1200
Chromium, Dissolved	< 0.025	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride, Dissolved	NA	NA	NA	NA	NA	NA	NA	7.4	26	NA	NA
Magnesium, Dissolved	2000	450	3900	1100	1700	1200	440	580	2600	700	660
Manganese, Dissolved	1.4	0.90	6.1	1.5	5.4	0.89	1.2	0.22	2.2	0.34	0.12
Molybdenum, Dissolved	0.62	0.068	2.2	0.90	2.9	0.16	0.20	0.068	1.8	0.72	0.13
Nickel, Dissolved	< 0.5	0.0062	0.72	0.074	0.15	0.058	0.0071	0.0062	< 0.005	< 0.005	0.026
Potassium, Dissolved	1200	89	1600	200	1200	150	120	95	320	170	140
Selenium, Dissolved	0.060	0.018	0.19	0.029	0.10	0.020	0.020	0.0096	0.046	0.018	0.010
Sodium, Dissolved	30,000	1500	33,000	6100	28,000	9600	11,000	3200	4900	2800	1200
Strontium, Dissolved	NA	NA	NA	NA	NA	NA	NA	9.7	11	NA	NA
Titanium, Dissolved	< 0.025	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 1	< 0.005	< 0.005	0.0055
Vanadium, Dissolved	< 0.015	< 0.003	< 0.015	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Zinc, Dissolved	NA	NA	NA	NA	NA	NA	NA	0.0094	< 0.005	NA	NA

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
Unit 4 Pond Wells

FORMER POND 4A AREA

Parameter Name	IMW-2.5S 8/21/2013	IMW-2.5D 8/21/2013	MW-8 8/21/2013	MW-4 8/20/2013	CMW-6S 8/20/2013	CMW-6D 8/21/2013	CMW-4S 8/21/2013	CMW-4D 8/20/2013	CMW-7S 8/20/2013	CMW-7D 8/20/2013	CMW-5S 8/20/2013	CMW-5D 8/20/2013
General Chemistry	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
pH (field)	7.35	7.36	7.49	7.82	7.65	7.34	7.75	7.74	7.21	7.49	7.73	7.47
General Chemistry (umhos/cm)												
Specific Conductance	3600	3420	5040	3760	19,640	18,240	2790	2300	6100	5770	56,200	12,690
General Chemistry (mg/L)												
Alkalinity - Bicarbonate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3100	582
Alkalinity - Carbonate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20	< 20
Chloride	350	340	560	290	2600	3000	280	240	370	180	9000	1500
Nitrogen, Nitrate (as N)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Sulfate	1200	1100	1800	1000	8300	7500	990	880	3100	2800	31,000	5300
Sulfide	NA	NA	NA	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA
Sulfite	NA	NA	NA	< 2	NA	NA	NA	NA	NA	NA	NA	NA
Suspended Solids (residue, non-filterable)	NA	NA	NA	< 15	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (residue, filterable)	2654	2560	4044	2640	17,980	17,540	2078	1728	5544	4748	66,500	11,050
Total Organic Carbon	NA	NA	NA	3.6	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry (NTU)												
Turbidity	NA	NA	NA	7.29	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/L)												
Arsenic, Dissolved	0.15	0.14	0.041	0.064	0.086	0.053	< 0.02	0.024	1.0	0.33	0.45	0.055
Beryllium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.012	< 0.003
Boron, Dissolved	1.2	1.3	2.8	3.7	16	3.0	0.98	0.78	3.9	6.0	40	10
Cadmium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.012	< 0.003
Calcium, Dissolved	100	120	240	120	420	500	99	100	500	180	560	380
Chromium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005
Fluoride, Dissolved	NA	NA	NA	4.3	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium, Dissolved	160	150	210	140	750	950	110	100	270	180	3500	540
Manganese, Dissolved	0.27	0.24	0.24	0.12	0.22	0.79	< 0.005	< 0.005	1.0	0.12	2.0	0.36
Molybdenum, Dissolved	0.031	0.030	0.054	0.011	0.20	0.13	0.038	0.026	0.040	0.071	0.24	0.054
Nickel, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	0.0064	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.023	< 0.005
Potassium, Dissolved	36	34	45	37	300	95	24	22	63	45	510	90
Selenium, Dissolved	< 0.005	< 0.005	0.0077	0.0038	0.029	0.025	0.0041	0.0049	0.0067	0.0011	0.11	0.014
Sodium, Dissolved	550	520	780	670	4700	3500	410	270	930	1200	18,000	2700
Strontium, Dissolved	NA	NA	NA	4.3	NA	NA	NA	NA	NA	NA	NA	NA
Titanium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005
Vanadium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.012	< 0.003
Zinc, Dissolved	NA	NA	NA	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
Unit 4 Pond Wells

FORMER POND 4A AREA

MW-1R

Duplicate

MW-1R

8/20/2013

CMW-3S

8/21/2013

CMW-3D

8/21/2013

CMW-1S

8/21/2013

CMW-1D

8/21/2013

KMW-1S

8/21/2013

MW-9

8/21/2013

CMW-2S

8/21/2013

CMW-2D

8/21/2013

IMW-3S

8/20/2013

IMW-3D

8/20/2013

Parameter Name	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
General Chemistry														
pH (field)	7.41	NA	8.17	7.49	7.66	7.66	7.66	7.66	7.59	7.58	7.78	7.46	7.4	7.37
General Chemistry (µmhos/cm)														
Specific Conductance	3900	3950	14,840	6640	4860	4860	4920	28,600	10,810	9900	13,360	2490	2300	
General Chemistry (mg/L)														
Alkalinity - Bicarbonate	410	428	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity - Carbonate	< 20	< 20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	300	310	1100	800	560	560	480	2300	1300	1300	1600	250	240	240
Nitrogen, Nitrate (as N)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.71	< 0.5	< 0.5
Sulfate	1700	1700	7500	3200	2300	2300	2300	17,000	5500	4800	6300	710	710	710
Sulfide	NA	NA	NA	NA	NA	NA	NA	< 0.05	< 0.05	NA	NA	NA	NA	NA
Sulfite	NA	NA	NA	NA	NA	NA	NA	< 2	< 2	NA	NA	NA	NA	NA
Suspended Solids (residue, non-filterable)	NA	NA	NA	NA	NA	NA	NA	198	< 15	< 15	NA	NA	NA	NA
Total Dissolved Solids (residue, filterable)	3388	3452	13,410	5768	4172	4172	4156	30,920	10,710	9330	12,250	1784	1608	1608
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	10	1.9	NA	NA	NA	NA	NA
General Chemistry (NTU)														
Turbidity	NA	NA	NA	NA	NA	NA	NA	145	1.19	NA	NA	NA	NA	NA
Metals (mg/L)														
Arsenic, Dissolved	0.43	0.44	0.20	0.032	< 0.02	< 0.02	< 0.02	0.32	0.068	0.31	0.27	0.041	< 0.02	< 0.02
Beryllium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Boron, Dissolved	1.5	1.6	45	2.8	1.9	1.9	1.9	27	4.5	5.6	9.5	0.98	0.74	0.74
Cadmium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Calcium, Dissolved	460	460	200	340	300	300	300	490	530	410	380	110	140	140
Chromium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride, Dissolved	NA	NA	NA	NA	NA	NA	NA	3.9	3.0	NA	NA	NA	NA	NA
Magnesium, Dissolved	100	100	75	320	220	220	230	1300	660	410	530	95	87	87
Manganese, Dissolved	0.11	0.11	0.13	0.56	0.19	0.19	0.20	1.3	3.1	0.085	0.19	< 0.005	< 0.005	< 0.005
Molybdenum, Dissolved	0.017	0.018	0.43	0.056	0.049	0.049	0.049	0.16	0.024	0.068	0.079	0.026	0.011	0.011
Nickel, Dissolved	< 0.005	< 0.005	0.044	< 0.005	< 0.005	< 0.005	< 0.005	0.033	0.030	0.013	0.026	< 0.005	< 0.005	< 0.005
Potassium, Dissolved	44	44	73	49	53	53	53	210	66	92	69	26	28	28
Selenium, Dissolved	0.0032	0.0035	0.012	0.012	0.0033	0.0033	0.0034	0.031	0.018	0.0080	0.0081	0.0086	0.0090	0.0090
Sodium, Dissolved	440	450	4100	1000	680	680	660	8200	1800	1700	2700	350	280	280
Strontium, Dissolved	NA	NA	NA	NA	NA	NA	NA	15	15	NA	NA	NA	NA	NA
Titanium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0060	< 0.003	< 0.003
Zinc, Dissolved	NA	NA	NA	NA	NA	NA	NA	< 0.005	< 0.005	NA	NA	NA	NA	NA

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
Former ASP - 1, 2, 3 Wells

	IMW-9R 8/22/2013	IMW-13R 8/22/2013	IMW-12.5R 8/22/2013	IMW-12.5R Duplicate 8/22/2013	IMW-17 8/22/2013	IMW-14R 8/22/2013
Parameter Name	Result	Result	Result	Result	Result	Result
General Chemistry						
ph (field)	7.6	8.34	7.89	NA	8.04	8.36
General Chemistry (mg/L)						
Alkalinity - Bicarbonate	489	274	NA	NA	345	392
Alkalinity - Carbonate	< 20	< 20	NA	NA	< 20	< 20
Chloride	310	74	81	83	140	720
Nitrogen, Nitrate (as N)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	8.7
Phosphorus, Total (as P)	0.30	< 0.1	0.31	0.45	0.66	0.29
Sulfate	880	210	180	160	870	2600
Sulfide	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sulfite	< 2	< 2	< 2	< 2	< 2	< 2
Suspended Solids (residue, non-filterable)	1029	56	762	215	1008	3296
Total Dissolved Solids (residue, filterable)	2118	706	750	722	1764	5484
Total Organic Carbon	< 1	< 1	< 1	< 1	< 1	< 1
General Chemistry (NTU)						
Turbidity	1030	34.9	186	75.7	981	1560
Metals (mg/L)						
Arsenic, Dissolved	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Barium, Dissolved	0.013	0.027	0.038	0.040	0.016	0.0065
Beryllium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Boron, Dissolved	0.80	0.73	0.52	0.52	3.3	4.2
Cadmium, Dissolved	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Calcium, Dissolved	170	38	42	44	51	87
Chromium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride, Dissolved	2.7	2.1	2.3	2.6	3.9	8.6
Magnesium, Dissolved	110	33	42	43	16	56
Manganese, Dissolved	< 0.005	0.022	0.021	0.025	< 0.005	< 0.005
Molybdenum, Dissolved	0.020	0.0075	< 0.005	< 0.005	0.13	0.38
Nickel, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Selenium, Dissolved	0.0094	0.0017	< 0.001	< 0.001	0.010	0.042
Sodium, Dissolved	340	150	150	140	560	1900
Strontium, Dissolved	3.8	2.6	2.0	2.1	2.1	1.9
Titanium, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium, Dissolved	0.0050	0.020	0.014	0.010	0.0048	0.0079
Zinc, Dissolved	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
Former ASP - 1, 2, 3 Wells

	IMW-9R 8/22/2013	IMW-13R 8/22/2013	IMW-12.5R 8/22/2013	IMW-12.5R Duplicate 8/22/2013	IMW-17 8/22/2013	IMW-14R 8/22/2013
Parameter Name	Result	Result	Result	Result	Result	Result
VOC (µg/L)						
Acetone	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	< 5	< 5	< 5	< 5	< 5	< 5
Bromobenzene	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	< 5	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	< 5	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	< 5	< 5	< 5	< 5	< 5	< 5
Carbon Disulfide	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 5	< 5	< 5	< 5	< 5	< 5
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	< 5	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	< 5	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	< 5	< 5	< 5	< 5	< 5	< 5
Dibromomethane	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5
Dichlorodifluoromethane	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5
1,3-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5
Hexachlorobutadiene	< 5	< 5	< 5	< 5	< 5	< 5
Isopropylbenzene	< 5	< 5	< 5	< 5	< 5	< 5
4-Isopropyltoluene	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-Pentanone	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5
Methyl-tert-butyl ether	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene (VOC)	< 5	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	< 5	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	< 5	< 5	< 5	< 5	< 5	< 5
1,2,3-Trichlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	< 5	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	< 5	< 5	< 5	< 5	< 5	< 5
1,2,3-Trichloropropane	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2
m,p-Xylene	< 5	< 5	< 5	< 5	< 5	< 5
o-Xylene	< 5	< 5	< 5	< 5	< 5	< 5
Total Xylenes	< 5	< 5	< 5	< 5	< 5	< 5

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
Dissolved Chlorinated Solvents Area

	HM-50R 8/27/2013	HM-48 8/27/2013	HM-8 8/23/2013	HM-8 Duplicate 8/23/2013
Parameter Name	Result	Result	Result	Result
General Chemistry				
ph (field)			7.8	NA
General Chemistry (mg/L)				
Chloride			250	240
Nitrogen, Nitrate (as N)			< 0.5	< 0.5
Phosphorus, Total (as P)			0.93	0.64
Sulfate			900	900
Total Dissolved Solids (residue, filterable)			2406	2438
Metals (mg/L)				
Arsenic, Dissolved	Not Sampled, Free Product	Not Sampled, Free Product	0.036	0.044
Barium, Dissolved			0.028	0.027
Beryllium, Dissolved			< 0.003	< 0.003
Boron, Dissolved			3.6	3.6
Cadmium, Dissolved			< 0.003	< 0.003
Calcium, Dissolved			65	64
Chromium, Dissolved			< 0.005	< 0.005
Magnesium, Dissolved			51	50
Manganese, Dissolved			0.066	0.063
Molybdenum, Dissolved			0.037	0.035
Nickel, Dissolved			0.0057	0.0051
Selenium, Dissolved			0.0017	0.0016
Sodium, Dissolved			770	770
Titanium, Dissolved			< 0.005	< 0.005
Vanadium, Dissolved			< 0.003	< 0.003

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
Dissolved Chlorinated Solvents Area

	HM-50R 8/27/2013	HM-48 8/27/2013	HM-8 8/23/2013	HM-8 Duplicate 8/23/2013
Parameter Name	Result	Result	Result	Result
VOC (µg/L)				
Acetone			< 10	< 10
Benzene			< 5	< 5
Bromobenzene			< 5	< 5
Bromodichloromethane			< 5	< 5
Bromoform			< 5	< 5
Bromomethane			< 5	< 5
n-Butylbenzene			< 5	< 5
sec-Butylbenzene			< 5	< 5
tert-Butylbenzene			< 5	< 5
Carbon Disulfide			< 5	< 5
Carbon tetrachloride			< 5	< 5
Chlorobenzene			< 5	< 5
Chloroethane			< 5	< 5
Chloroform			< 5	< 5
Chloromethane			< 5	< 5
2-Chlorotoluene			< 5	< 5
4-Chlorotoluene			< 5	< 5
1,2-Dibromo-3-chloropropane			< 5	< 5
Dibromochloromethane			< 5	< 5
1,2-Dibromoethane			< 5	< 5
Dibromomethane			< 5	< 5
1,2-Dichlorobenzene			< 5	< 5
1,3-Dichlorobenzene			< 5	< 5
1,4-Dichlorobenzene			< 5	< 5
Dichlorodifluoromethane			< 5	< 5
1,1-Dichloroethane			< 5	< 5
1,2-Dichloroethane			< 5	< 5
1,1-Dichloroethene			< 5	< 5
cis-1,2-Dichloroethene			< 5	< 5
trans-1,2-Dichloroethene			< 5	< 5
1,2-Dichloropropane			< 5	< 5
1,3-Dichloropropane			< 5	< 5
2,2-Dichloropropane			< 5	< 5
1,1-Dichloropropene			< 5	< 5
cis-1,3-Dichloropropene			< 5	< 5
Ethylbenzene			< 5	< 5
Ethylene			< 0.013	< 0.013
Hexachlorobutadiene			< 5	< 5
Isopropylbenzene			< 5	< 5
4-Isopropyltoluene			< 5	< 5
4-Methyl-2-Pentanone			< 10	< 10
Methylene chloride			< 5	< 5
Methyl-tert-butyl ether			< 5	< 5
Naphthalene (VOC)			< 5	< 5
n-Propylbenzene			< 5	< 5
Styrene			< 5	< 5
1,1,1,2-Tetrachloroethane			< 5	< 5
1,1,2,2-Tetrachloroethane			< 5	< 5
Tetrachloroethene			< 5	< 5
Toluene			< 5	< 5
1,2,3-Trichlorobenzene			< 5	< 5
1,2,4-Trichlorobenzene			< 5	< 5
1,1,1-Trichloroethane			< 5	< 5
1,1,2-Trichloroethane			< 5	< 5
Trichloroethene			< 5	< 5
Trichlorofluoromethane			< 5	< 5
1,2,3-Trichloropropane			< 5	< 5
1,2,4-Trimethylbenzene			< 5	< 5
1,3,5-Trimethylbenzene			< 5	< 5
Vinyl chloride			< 2	< 2
m,p-Xylene			< 5	< 5
o-Xylene			< 5	< 5
Total Xylenes			< 5	< 5

Not Sampled, Free Product

Not Sampled, Free Product

Table 1 - Monitoring Well Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station
WMU-12 Area

Unit 4										
Dewatering					Well Effluent					
HM-60	HM-33	HM-32R	HM-31R	HM-20	HM-28	HM-24	HM-19	HM-53	HM-52R	
8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/27/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013	
Parameter Name										
Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
General Chemistry										
ph (field)	7.64	7.57	7.67	8.09	Not Sampled, Free Product					
General Chemistry (mg/L)										
Alkalinity - Bicarbonate	299	NA	325	NA	NA	NA	NA	373	510	
Alkalinity - Carbonate	<20	NA	<20	NA	NA	NA	NA	<20	NA	
Chloride	220	260	370	310	300	330	250	300	400	
Nitrogen, Nitrate (as N)	<0.5	0.64	0.54	<0.5	<0.5	<0.5	<0.5	0.64	<0.5	
Phosphorus, Total (as P)	<0.1	2.4	<0.1	0.95	0.58	1.6	<0.1	<0.1	0.36	
Sulfate	1200	1200	3900	370	1400	1400	1100	1000	2500	
Sulfide	NA	NA	NA	NA	<0.05	NA	NA	<0.05	<0.05	
Sulfite	NA	NA	NA	NA	<2	NA	NA	<2	<2	
Suspended Solids (residue, non-filterable)	NA	NA	NA	NA	1110	NA	NA	<15	56	
Total Dissolved Solids (residue, filterable)	2320	2470	6272	2836	2666	3248	2426	2286	4504	
Total Organic Carbon	NA	NA	NA	NA	<1	NA	NA	<1	1.9	
General Chemistry (NTU)										
Turbidity	NA	NA	NA	NA	1420	NA	NA	3.7	61.2	
Metals (mg/L)										
Arsenic, Dissolved	0.024	<0.02	0.17	<0.02	0.034	<0.02	0.075	0.026	0.64	
Barium, Dissolved	0.021	0.015	0.093	0.22	0.010	0.020	0.012	0.015	0.016	
Beryllium, Dissolved	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
Boron, Dissolved	2.4	2.1	2.9	3.5	2.6	5.4	3.0	1.4	5.8	
Cadmium, Dissolved	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
Calcium, Dissolved	100	160	170	35	130	25	61	140	180	
Chromium, Dissolved	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Fluoride, Dissolved	NA	NA	NA	NA	3.7	NA	NA	3.9	7.0	
Magnesium, Dissolved	64	94	100	55	95	63	66	110	220	
Manganese, Dissolved	0.054	<0.005	0.030	0.0057	0.018	0.016	0.24	<0.005	0.11	
Molybdenum, Dissolved	0.042	0.022	0.057	<0.005	0.041	<0.005	0.021	0.037	0.083	
Nickel, Dissolved	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0096	<0.005	0.011	
Selenium, Dissolved	0.015	0.018	0.012	0.0020	0.0085	0.0020	0.0018	0.0092	0.0054	
Sodium, Dissolved	580	470	1800	1100	660	1100	690	460	1000	
Strontium, Dissolved	NA	NA	NA	NA	3.5	NA	NA	3.6	7.7	
Titanium, Dissolved	<0.005	<0.005	<0.005	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	
Vanadium, Dissolved	0.016	0.013	0.026	0.024	0.011	<0.003	0.0034	0.0093	<0.003	
Zinc, Dissolved	NA	NA	NA	NA	<0.005	NA	NA	<0.005	0.0099	

TABLE 1A - QUARTERLY MONITORING WELL PRODUCT LEVELS

REID GARDNER STATION (DIESEL RECOVERY PROJECT)							
GROUNDWATER ELEVATION DATA							
Date Collected: 8/27/2013				Collected By: Thompson			
Well (New I.D.)	New TOC Elev	Depth to top of Diesel	Depth to top of Water	New Groundwater Elevation*	Product Thickness	Top of Product Elevation	Sample Comments
HM-1	1596.47		18.35	1578.12	0		Gauged 8/27/2013
HM-2	1595.93		18.23	1577.70	0		Gauged 8/27/2013
HM-4	1596.88		19.22	1577.66	0		Gauged 8/27/2013
HM-5a	1593.68		-	-	-		Not gauged (pump in well)
HM-6	1590.48		-	-	-		WELL DESTROYED
HM-7	1598.57	22.76	22.96	1575.78	0.20	1575.81	Gauged 8/27/2013
HM-8	1594.56		16.82	1577.74	0		Sampled 8/23/2013
HM-12	1589.95		-	-	-		Not gauged (pump in well)
HM-15	1588.72		20.99	1567.73	0		Gauged 8/27/2013
HM-16	1591.59		-	-	-		WELL DESTROYED
HM-17	1588.24		19.36	1568.88	0		Gauged 8/27/2013
HM-18	1586.66		23.98	1562.68	0		Gauged 8/27/2013
HM-19	1584.67		22.11	1562.56	0		Sampled 8/23/2013
HM-20	1588.67	24.30	24.32	1564.37	0.02	1564.37	Gauged 8/27/2013
HM-21	1587.04		-	-	-		Gauged Dry 8/27/2013
HM-22	1591.01		-	-	-		Gauged Dry 8/27/2013
HM-23	1588.52		24.94	1563.58	0		Gauged 8/27/2013
HM-24	1586.21		23.22	1562.99	0		Sampled 8/23/2013
HM-27			-	-	-		WELL DESTROYED
HM-28	1592.71		29.58	1563.13	0		Sampled 8/23/2013
HM-29	1582.15		19.86	1562.29	0		Gauged 8/27/2013
HM-30	1591.28		15.16	1576.12	0		Gauged 8/27/2013
HM-31R	1590.37		17.24	1573.13	0		Sampled 8/23/2013
HM-32R	1586.38		10.70	1575.68	0		Sampled 8/23/2013
HM-33	1591.33		14.84	1576.49	0		Sampled 8/23/2013
HM-34	1582.57		20.30	1562.27	0		Gauged 8/27/2013
HM-36	1581.02		18.91	1562.11	0		Gauged 8/27/2013
HM-38	1596.1	20.00	25.05	1575.24	5.05	1576.10	Gauged 8/27/2013
HM-39	1597.64	21.72	23.82	1575.56	2.10	1575.92	Gauged 8/27/2013
HM-40	1597.9		20.36	1577.54	0		Gauged 8/27/2013
HM-41	1592.6		15.40	1577.20	0		Gauged 8/27/2013
HM-42	1595.11	17.41	18.11	1577.58	0.70	1577.70	Gauged 8/27/2013
HM-43	1595.64		-	-	-		Not gauged
HM-44	1595.65	18.11	18.76	1577.43	0.65	1577.54	Gauged 8/27/2013
HM-45	1594.4	17.52	20.21	1576.42	2.69	1576.88	Gauged 8/27/2013
HM-46	1591.53		-	-	-		Not gauged (too many hoses)
HM-47	1595.06	18.15	19.16	1576.74	1.01	1576.91	Gauged 8/27/2013
HM-48	1588.89	10.90	12.15	1577.78	1.25	1577.99	Gauged 8/27/2013
HM-50R	1588.63	10.70	12.12	1577.69	1.42	1577.93	Gauged 8/27/2013
HM-51	1588.21		-	-	-		WELL DESTROYED
HM-52R	1581.35		21.00	1560.35	0		Sampled 8/23/2013
HM-53	1581.74		17.96	1563.78	0		Sampled 8/23/2013
HM-54	1580.66		20.14	1560.52	0		Sampled 8/23/2013
HM-55	1502.44		-	-	0		Not gauged
HM-56	1502.58		-	-	0		Not gauged
HM-60	1588.54		10.97	1577.57	0		Sampled 8/23/2013
HR-1	1593.12	17.13	18.56	1575.75	1.43	1575.99	Gauged 8/27/2013
HR-2	1592.2	19.20	19.25	1572.99	0.05	1573.00	Gauged 8/27/2013
HR-4	1591.36		-	-	-		Not gauged (too many hoses)
T1-PA	1592.39		-	-	-		Not gauged (well

Table 3 - Surface Sampling Location Sampling Results
3rd Quarter 2013
NV Energy - Reid Gardner Station

Parameter Name	MR-UP 8/23/2013	MR-1 8/23/2013	MR-2 8/23/2013	MR-3 8/23/2013	MR-4 8/23/2013	MR-4 Duplicate 8/23/2013	SGSPR 8/23/2013
General Chemistry							
pH (field)	8.37	8.45	8.51	8.51	8.43	NA	7.58
General Chemistry (mg/L)							
Hardness as CaCO ₃	270	250	280	280	280	280	2400
Nitrate + Nitrite (as N)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Nitrogen	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.25	10
Phosphorus, Total (as P)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	3.2
Sulfate	190	190	190	200	210	210	1700
Total Dissolved Solids (residue, filterable)	466	603	604	580	616	609	3676
Total Kjeldahl Nitrogen	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.25	10
Metals (mg/L)							
Antimony, Total	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Arsenic, Total	0.021	< 0.02	0.023	< 0.02	< 0.02	0.020	0.51
Barium, Total	0.041	0.040	0.044	0.043	0.043	0.043	1.3
Beryllium, Total	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0033
Boron, Total	0.32	0.29	0.33	0.32	0.34	0.35	3.2
Cadmium, Total	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0079
Calcium, Total	61	56	63	62	62	63	590
Chromium, Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19
Copper, Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19
Fluoride, Total	2.0	2.5	2.5	2.0	1.9	1.9	4.9
Iron, Total	< 0.1	< 0.1	0.18	0.18	0.18	0.16	49
Lead, Total	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	0.067
Magnesium, Total	29	26	30	29	30	30	230
Manganese, Total	< 0.005	< 0.005	< 0.005	< 0.005	0.0073	0.0075	3.7
Mercury, Total	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0016
Molybdenum, Total	0.0076	0.0074	0.0080	0.0073	0.0078	0.0077	0.16
Nickel, Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.070
Selenium, Total	0.0014	0.0011	0.0016	0.0012	< 0.01	< 0.01	0.043
Silver, Total	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium, Total	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Zinc, Total	< 0.005	0.0080	< 0.005	< 0.005	0.0060	< 0.005	0.35

Table 4 - Groundwater Elevation
3rd Quarter 2013
NV Energy - Reid Gardner Station

Well ID	Ground Elev	TOC Elev	Well Depth (at Construction) ¹	Well Depth (4th Qtr - 2012) ²	Screened Interval ¹		Water Level	Note	Groundwater Elevation
Background Wells									
BG-1D	1609.88	1612.95	105	105.93	85	100		NS	
BG-1M	1610.14	1613.24	72	73.17	52	67		NS	
BG-1S	1610.39	1613.13	43	44.15	18	38		NS	
BG-2D	1614.15	1617.65	98	100.10	78	93		NS	
BG-2M	1613.99	1617.59	65	67.70	40	60		NS	
BG-2S	1613.73	1617.23	40	42.20	15	35		NS	
BG-3D	1621.22	1623.91	150	151.95	130	145		NS	
BG-3M	1621.30	1623.60	117	116.20	97	112		NS	
BG-3S	1621.07	1623.60	80	82.05	60	75		NS	
BG-4D	1659.55	1662.52	172	174.10	152	167		NS	
BG-4M	1659.52	1662.43	135	135.80	115	130		NS	
BG-4S	1659.94	1662.43	102	104.72	72	97		NS	
BG-6D	1616.25	1619.37	135	132.90	115	130		NS	
BG-6M	1616.26	1619.20	104	106.00	84	99		NS	
BG-6S	1616.27	1618.85	72	74.50	47	67		NS	
Mesa Wells									
LMW-2	1699.25	1702.25	120	117.45	100	120	109.99		1592.26
LMW-3	1682.39	1685.02	115	98.10	73	103	94.03		1590.99
LMW-4R	1731.39	1733.90	165	166.10	125	165	138.68		1595.22
LMW-5R	1728.94	1731.95	183	185.95	133	173	136.61		1595.34
LMW-6R	1734.83	1737.51	165	169.40	130	160	138.62		1598.89
LMW-7	1738.55	1741.07	178	162.10	108	178	139.58		1601.49
LMW-8R	1688.01	1690.29	128	129.80	88	118	99.8		1590.49
LMW-9	1729.98	1733.47	153	156.90	128	148	126.59		1606.88
LMW-10	1747.03	1750.63	154	145.85	129	149	140.58		1610.05
KMW-12	1738.80	1741.64	165	163.60	145	165	152.01		1589.63
KMW-16	1736.76	1740.47	145	142.35	125	145	140.04		1600.43
Mesa Pond Wells									
LMW-11	1739.67	1741.89	180	162.00	123	153		NS	
LMW-11R	1739.79	1742.94	180	182.97	140	175	152.81		1590.13
LMW-12R	1724.61	1727.54	201	201.00	156	196	163.17		1564.37
LMW-13R	1667.68	1670.71	145	148.40	95	140	107.48		1563.23
LMW-14	1691.60	1694.49	160		120	150		NS	
LMW-14R	1691.69	1694.98	176	179.10	131	171	138.78		1556.20
LMW-15	1688.29	1691.37	163	166.60	123	158	135.11		1556.26
LMW-16	1696.82	1700.01	169	172.70	124	164	126.29		1573.72
Unit 4 Pond Wells									
IMW-2D	1612.64	1613.77	102	101.50	75	85	21.34		1592.43
IMW-2SR	1612.54	1615.91	44	43.90	19	39	25.15		1590.76
KMW-1D	1612.62	1615.83	75	78.80	65	75	22.18		1593.65
KMW-1M	1612.18	1615.90	50	47.00	40	50	25.07		1590.83
KMW-1S	1612.32	1615.70	25	29.00	10	25	24.97		1590.73
KMW-19	1612.69	1616.23	25	28.00	10	25	25.75		1590.48
KMW-20	1614.76	1618.42	35	34.00	12	32	27.50		1590.92
KMW-11	1605.04	1606.11	47	47.80	37	47	15.50		1590.61
KMW-2D	1598.25	1601.94	74	77.80	64	74	13.96		1587.98
KMW-2M	1598.25	1601.89	50	52.50	40	50	14.07		1587.82
KMW-2S	1598.28	1601.76	25	26.40	5	25	14.04		1587.72
MW-2R	1595.81	1597.83	20	22.90	5	20	12.30		1585.53
MW-3RR	1598.24	1600.26	28	30.20	8	23	14.48		1585.78
MW-5	1603.35	1606.22	30	32.30	20	30	19.35		1586.87
MW-6	1602.51	1605.75	25	28.00	20	25	18.31		1587.44
MW-10RR	1597.21	1598.69	26	27.00	6	16	10.55		1588.14
MW-11M	1607.57	1607.52	50		38	48	20.14		1587.38
MW-11S	1607.67	1607.17	25		10	25	18.17		1589.00
MW-12M	1609.93	1609.46	50		37	47	21.93		1587.53
MW-12S	1609.86	1609.74	30		15	30	21.44		1588.30
MW-13	1598.81	1601.42	25		10	25	11.71		1589.71
MW-14M	1609.68	1609.39	51		40	50	22.32		1587.07
MW-14S	1609.63	1609.48	35		15	35	22.08		1587.40
MW-15	1599.65	1599.18	25		8	23	11.16		1588.02
MW-16M	1594.47	1596.72	40		30	40	11.71		1585.01
MW-16S	1594.34	1596.95	25		8	20	11.88		1585.07
CMW-1D	1587.69	1589.60	35	35.60	25	35	7.42		1582.18
CMW-1S	1587.69	1589.40	35	11.80	5	10	7.85		1581.55
CMW-2D	1587.49	1589.34	35	34.50	25	35	8.65		1580.69
CMW-2S	1587.49	1589.17	35	11.80	5	10	8.3		1580.87
CMW-3D	1598.46	1600.49	46	47.90	35	45	17.81		1582.68
CMW-3S	1598.46	1600.37	46	25.50	17	22	17.95		1582.42
CMW-4D	1593.26	1595.33	30	29.50	20	30	11.71		1583.62
CMW-4S	1593.26	1595.31	30	17.90	10	15	12.17		1583.14
CMW-5D	1599.26	1601.39	46	42.70	35	45	17.69		1583.70
CMW-5S	1599.26	1601.27	46	22.00	15	20	17.81		1583.46
CMW-6D	1599.40	1601.61	45	47.20	35	45	16.86		1584.75
CMW-6S	1599.40	1601.73	45	21.20	15	20	16.85		1584.88
CMW-7D	1592.30	1594.44	35	32.70	25	35	8.31		1586.13
CMW-7S	1592.30	1594.31	35	17.60	10	15	7.06		1587.25
KMW-15	1595.87	1598.74	27	26.90	10	25	16.83		1581.91
MW-1R	1595.08	1597.00	20	23.60	5	20	11.44		1585.56
MW-4	1602.49	1605.59	30	32.90	20	30	19.65		1585.94
MW-8	1611.93	1605.72	30	32.90	20	30	21.38		1584.34
MW-9	1603.62	1606.84	35	37.80	25	35	25.44		1581.40
IMW-2.5D	1595.11	1595.84	70	56.90	40	50	11.13		1584.71
IMW-2.5S	1595.18	1595.32	20	18.50	10	20	10.77		1584.55
IMW-3D	1597.11	1598.02	100		90	100	16.85		1581.17
IMW-3S	1597.14	1598.34	25	24.06	15	25	17.36		1580.98

Table 4 - Groundwater Elevation
3rd Quarter 2013
NV Energy - Reid Gardner Station

Well ID	Ground Elev	TOC Elev	Well Depth (at Construction) ¹	Well Depth (4th Qtr - 2012) ²	Screened Interval ¹		Water Level	Note	Groundwater Elevation
					Top	Bottom			
Unit 1,2,3 Pond Wells									
P-2	1588.89	1591.58	17	18.60	7	17	14.41		1577.17
P-4	1588.67	1591.12	20.4	20.60	8	18	14.75		1576.37
P-5R	1595.74	1597.69	35	35.00	10	35	20.66		1577.03
P-6R	1595.27	1597.14	33	35.20	8	33	20.15		1576.99
P-7R	1595.66	1597.45	33	35.20	8	33	19.09		1578.36
P-8R	1599.47	1601.46	33	34.70	8	33	19.95		1581.51
P-9R	1597.06	1598.86	33	34.80	8	33	14.25		1584.61
KMW-9	1595.90	1599.09	60	63.50	50	60	15.8		1583.29
P-10	1595.34	1600.15	14	19.10	4	14	14.10		1586.05
P-11	1634.51	1638.00	65	68.00	20	65	48.48		1589.52
P-12	1620.05	1623.70	82	83.50	67	82	37.55		1586.15
P-13R	1609.99	1612.29	35	36.40	15	35	25.5		1586.79
P-14R	1604.56	1606.71	35	37.50	10	35	21.2		1585.51
P-15AR	1595.36	1597.22	25	28.20	5	25	14.19		1583.03
P-17A	1583.86	1587.02	12.8	13.30	5	10	10.72		1576.30
P-17B	1583.50	1586.14	13	12.90	5	10	9.44		1576.70
P-18A	1581.70	1583.83	13.2	13.20			Dry	**	NA
P-18B	1580.69	1583.94	13.4	13.15	5	10	10.92		1573.02
P-19AR	1578.48	1580.77	28	28.70	8	23	8.58		1572.19
P-20A	1578.02	1580.71	24	27.50	15	25	6.60		1574.11
P-20B	1577.24	1580.70	20.5	30.60	17	27	6.72		1573.98
KMW-8R	1596.18	1598.86	73	77.30	60	70	22.62		1576.24
P-21	1587.20	1590.73	49	54.80	34	49	5.6		1585.13
P-22	1577.55	1579.87	33	31.50	18	33	4.3		1575.57
IMW-16S	1570.74	1571.12	22	17.00	10	20		NA	
Former ASP-1,2,3 Area									
IMW-9R	1596.49	1599.29	22	25.00	12	22	19.45		1579.84
IMW-12.5R	1620.28	1623.06	35	35.80	15	35	18.52		1604.54
IMW-13R	1617.31	1620.14	35	34.70	15	35	16.35		1603.79
IMW-14R	1602.86	1605.50	30	32.90	10	30	13.36		1592.14
IMW-17	1598.23	1600.25	30	30.60	8	28	17.62		1582.63
Dissolved Chlorinated Solvents Area									
HM-8	1591.01	1594.56	20	25.40	10	20	16.82		1577.74
HM-48	1589.17	1589.01	29	28.15	4	29	12.15	FP	1577.78
HM-50R	1589.18	1588.63	20	-	8	28	12.12	FP	1577.69
Waste Management Unit 12 Area									
HM-19	1582.11	1584.67		28.80			22.11		1562.56
HM-20	1586.14	1588.67	25	28.36	5	25	24.32	FP	1564.37
HM-24	1583.89	1586.21	25	28.10	5	25	23.22		1562.99
HM-28	1589.59	1592.71	35	41.90	15	35	29.58		1563.13
HM-31R	1588.67	1590.37	25	27.25	5	25	17.24		1573.13
HM-32R	1585.14	1586.38	30	29.10	8	28	10.7		1575.68
HM-33	1588.15	1591.33	25	26.60	5	25	14.84		1576.49
HM-52R	1579.25	1581.35	32	33.50	18	28	21		1560.35
HM-53	1579.11	1581.74	30	33.20	10	30	17.96		1563.78
HM-54	1578.08	1580.66	33	35.10	13	33	20.14		1560.52
HM-60		1588.54	30		5	25	10.97		1577.57

* Purged Dry, no sample obtained, water level obtained

** Well Dry, No water level or sample obtained

Well Damaged

% Well Abandoned or Destroyed

NS Well not gauged or sampled

NE No well casing elevation data available

NA No well access

WD Well Damaged no top of casing elevation

FP Free Product, GW Elevation not adjusted for specific gravity of free product

See Table 1A for Diesel Recovery Area groundwater elevations

¹ Measured from ground elevation

² Measured from top of casing

Table 5 - Well Maintenance
3rd Quarter 2013
NV Energy - Reid Gardner Station

New well observation added 3rd qtr 2013

Action to be taken after 2014
Continue observing

Action taken on well in 2013
Action to be taken 2014

Area Location	Well ID	Well Construction Date	Field Observations 3rd qtr 2012	Recommendation January 2013	Field Observations 1st qtr 2013/Status April 2013	Field Observations 3rd qtr 2013	Recommendation October 2013
Unit 1,2,3 Pond Wells	P-1R	12/9/2003	Roots	Brush clean	Abandoned March 3, 2013	NA	NA
Unit 1,2,3 Pond Wells	P-9	5/4/1988	Roots	Brush clean	Abandoned March 3, 2013	NA	NA
Former ASP-1,2,3 Wells	IMW-15	7/12/2005	Roots	Plug and abandon	Abandoned March 3, 2013	NA	NA
Unit 1,2,3 Pond Wells	P-2	10/31/1989	Damaged casing	Repair casing and resurvey	Repaired 1st qtr 2013. Resurveyed April 2, 2013	OK	NA
Unit 4 Pond Wells	MW-4	4/16/1993	Cracked casing	Repair casing and resurvey	Repaired 1st qtr 2013. Resurveyed April 2, 2013	OK	NA
Unit 4 Pond Wells	MW-9	4/15/1993	Broken casing	Repair casing and resurvey	Repaired 1st qtr 2013. Resurveyed April 2, 2013	OK	NA
Unit 4 Pond Wells	CMW-15	10/7/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Silty. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-1D	10/7/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-2S	10/7/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Silty. Parameter concentrations remained the same.	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-2D	10/7/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-3S	9/28/2004	Clear	Due nothing. Eventually cease sampling as proposed in GSP	Silty	Cloudy	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-3D	9/28/2004	Clear	Due nothing. Eventually cease sampling as proposed in GSP	Clear	Clear	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-4S	10/5/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-4D	10/5/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-5S	9/30/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Silty. Parameter concentrations remained the same.	Abandon (Pond 4A solids removal workplan). Replace with one well in center of the pond footprint following solids removal
Unit 4 Pond Wells	CMW-5D	9/30/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-6S	10/1/2004	Silty	Due nothing. Eventually cease sampling as proposed in GSP	Silty	Silty	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-6D	10/1/2004	Clear	Due nothing. Eventually cease sampling as proposed in GSP	Slightly Silty	Cloudy	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-7S	10/8/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Silty. Parameter concentrations remained the same.	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	CMW-7D	10/8/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).
Unit 4 Pond Wells	IMW-3D	5/2/1986	Damaged casing*	Repair casing and resurvey	Not accessible	sampld; lowered pump to 80' to prevent drying up. Casing not damaged.	Continue to observe. Possible inaccurate reporting.
Unit 4 Pond Wells	KMW-1S	3/17/1998	Well nearly dry	Abandon and replace. BLM access required.	Hand bailed dry, silty, roots	Hand bailed dry, roots	Abandon. Replace with deeper 4", smaller screen slot size, and finer filter pack

Table 5 - Well Maintenance
3rd Quarter 2013
NV Energy- Reid Gardner Station

Action taken on well in 2013 Action to be taken 2014		Action to be taken after 2014 Continue observing		New well observation added 3rd qtr 2013			
Area Location	Well ID	Well Construction Date	Field Observations 3rd qtr 2012	Recommendation January 2013	Field Observations 1st qtr 2013/Status April 2013	Field Observations 3rd qtr 2013	Recommendation October 2013
Unit 1,2,3 Pond Wells	P-18A	1986	Dry (Wood debris)	Brush clean	Dry	Dry. Not sampled	Abandon and replace with 4" well deeper than previous well (Muddy River Workplan)
Unit 1,2,3 Pond Wells	P-18B	1986	Recharge slowly	Do nothing. Possibly use as aquifer test observation well.	Recharge slowly. Hand bailed dry.	sampled; yellow hue, dry @ 1.5 gals.	Abandon and replace with 4" well deeper than previous well (Muddy River Workplan)
Unit 1,2,3 Pond Wells	KMW-9	3/18/1998	Exhibiting similar quality as shallow wells. Possible cracked casing. Aquifer test conducted.	Evaluate aquifer test results. Possible replacement.	Exhibits similar water quality as shallow wells. Aquifer test inconclusive	Exhibits similar water quality as shallow wells	Cease sampling and use as water level only. Abandon and replace with 4" well as part as Area South of Pond D/E Workplan
				Abandon and replace pair with one 4" well. Possible ramp required and ATV rig.	Recharge slowly. Hand bailed dry.	Recharge slowly. Hand bailed dry.	Abandon with Muddy River WP mobilization. Possible replacement with deeper well in future workplan.
Unit 1,2,3 Pond Wells	P-17A	1986	Recharge slowly	Abandon and replace pair with one 4" well. Possible ramp required and ATV rig.	Recharge slowly. Hand bailed dry.	Recharge slowly. Hand bailed dry.	Abandon with Muddy River WP mobilization. Possible replacement with deeper well in future workplan.
Unit 1,2,3 Pond Wells	P-17B	1986	Recharge slowly	Abandon and replace pair with one 4" well. Possible ramp required and ATV rig.	Recharge slowly. Hand bailed dry.	Recharge slowly. Hand bailed dry.	Abandon with Muddy River WP mobilization. Possible replacement with deeper well in future workplan.
Unit 1,2,3 Pond Wells	P-10	5/4/1988	Roots.	Abandon and replace. Do at same time as KMW-9.	No roots noted. Dry @ 6 gals.	No roots noted. Dry @ 4 gals.	Continue to observe. Potentially abandon and replace with 4" well in future workplan.
Unit 4 Pond Wells	KMW-25R	7/20/2011	Roots.	Brush clean	No roots noted	Roots in purge water	Continue to observe. Well recently installed.
Unit 4 Pond Wells	KMW-19	2/28/2000	Silty. Hand bailed dry.	NA	Silty. Hand bailed dry.	Not sampled. Covered with roots.	Water level can still be obtained. Observe status 1st qtr 2014. If roots still an issue, cease sampling starting 3rd qtr 2014 and use as water level only.
Unit 4 Pond Wells	KMW-20	5/2/2005	Silty. Hand bailed.	NA	Silty. Hand bailed.	sampled; silty, roots.	Continue to observe. Roots observed for the first time Q3 2013.
Unit 4 Pond Wells	MW-1R	8/20/2007	Clear. No roots	NA	Clear. No roots	sampled; dry @ 18 gals, roots on pump.	Continue to observe. Roots observed for the first time Q3 2013.
Unit 4 Pond Wells	KMW-10RR	7/11/2011	Roots	Brush clean	No roots noted. Light green grey.	sil yellow hue; dry @ 13 gals; roots on pump	Continue to observe. Well recently installed.

* Observed 1stqtr 2012

CORRECTIONS
FIRST SEMI-ANNUAL 2013 TABLE 1 MISSING PAGE

Table 1 - Monitoring Well Sampling Results
1st Quarter 2013
NV Energy - Reid Gardner Station
Unit 4 Pond Wells

CMW-7S 2/27/2013 2/27/2013 2/26/2013 2/27/2013 2/27/2013 2/27/2013 2/27/2013 2/27/2013 2/27/2013 2/27/2013 2/27/2013 2/27/2013 2/27/2013 2/27/2013

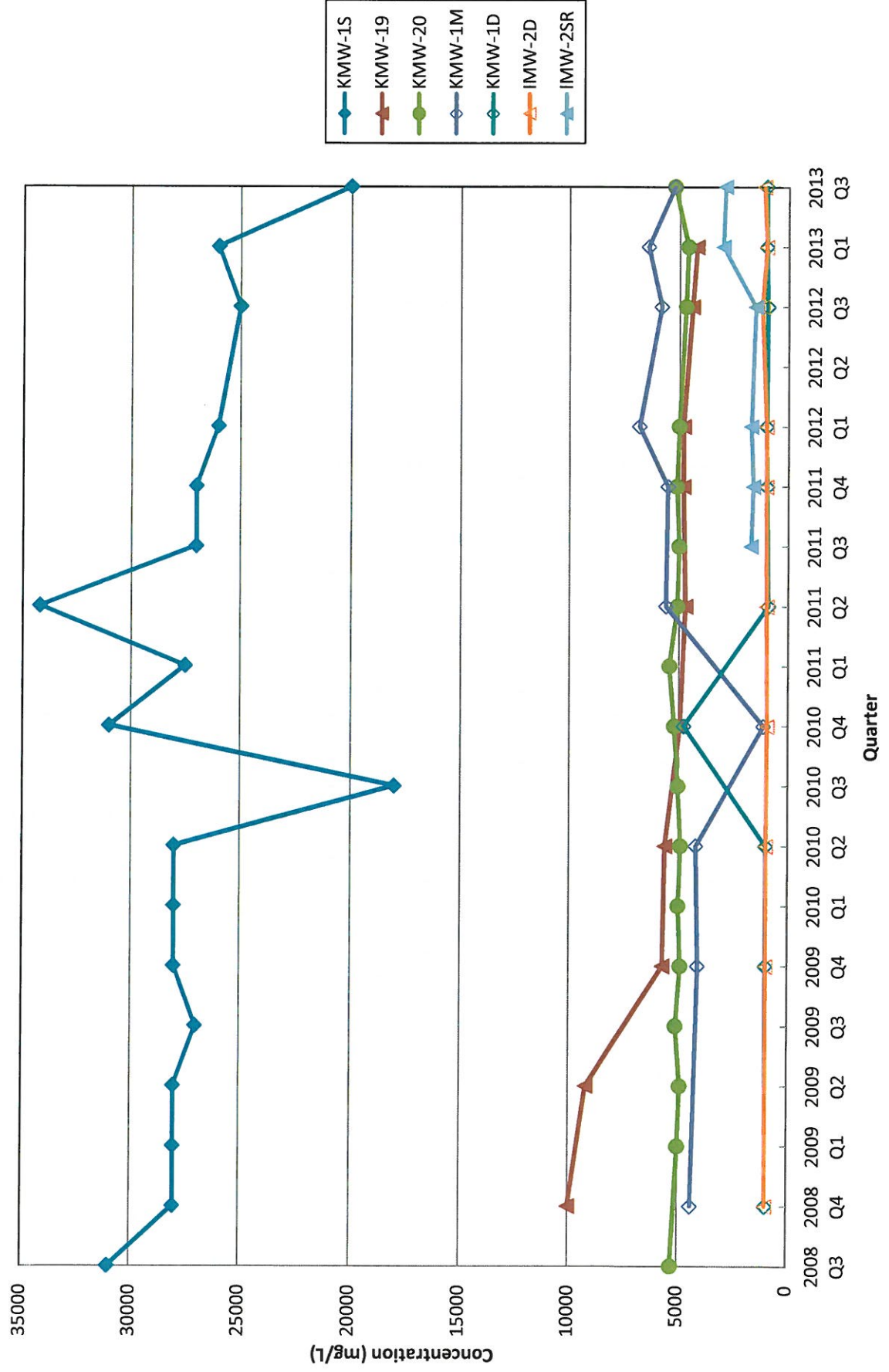
Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
7.12	7.05	7.04	7.15	6.98	6.89	7.24	7.33						
6,470	29,400	4,150	3,950	5,110	11,210	3,450	3,740						
370	2,400	310	300	510	1,200	340	370						
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						
3,200	18,000	1,800	1,100	1,700	5,300	970	1,100						
NA	<0.05	NA	0.30	NA	<0.05	NA	NA						
NA	<2	NA	<2	NA	<2	NA	NA						
NA	789	NA	13	NA	337	NA	NA						
5,744	31,840	3,684	2,954	3,972	11,290	2,560	2,728						
NA	11	NA	4.2	NA	1.8	NA	NA						
NA	350	NA	10.3	NA	59.4	NA	NA						
0.63	0.24	0.22	0.051	0.031	<0.02	0.15	0.15						
<0.003	<0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003						
4.3	27	1.5	3.8	2.8	4.2	1.3	1.2						
<0.003	<0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003						
460	460	470	120	200	540	100	86						
<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005						
NA	<0.5	NA	4.2	NA	2.0	NA	NA						
270	1300	110	150	200	680	140	140						
0.084	1.1	0.13	0.14	0.23	3.4	0.22	0.21						
0.060	0.14	0.019	0.012	0.065	0.022	0.032	0.033						
<0.005	0.058	<0.005	<0.005	<0.005	0.029	<0.005	<0.005						
60	200	44	41	51	64	34	37						
<0.02	<0.02	0.034	<0.02	<0.02	<0.02	0.022	<0.02						
960	7,700	440	640	760	1,700	500	560						
NA	14	NA	4.6	NA	16	NA	NA						
<0.005	<0.01	0.0052	<0.005	<0.005	<0.005	<0.005	<0.005						
<0.003	<0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003						
NA	<0.01	NA	<0.005	NA	<0.005	NA	NA						

NOT SAMPLED INACCESSIBLE

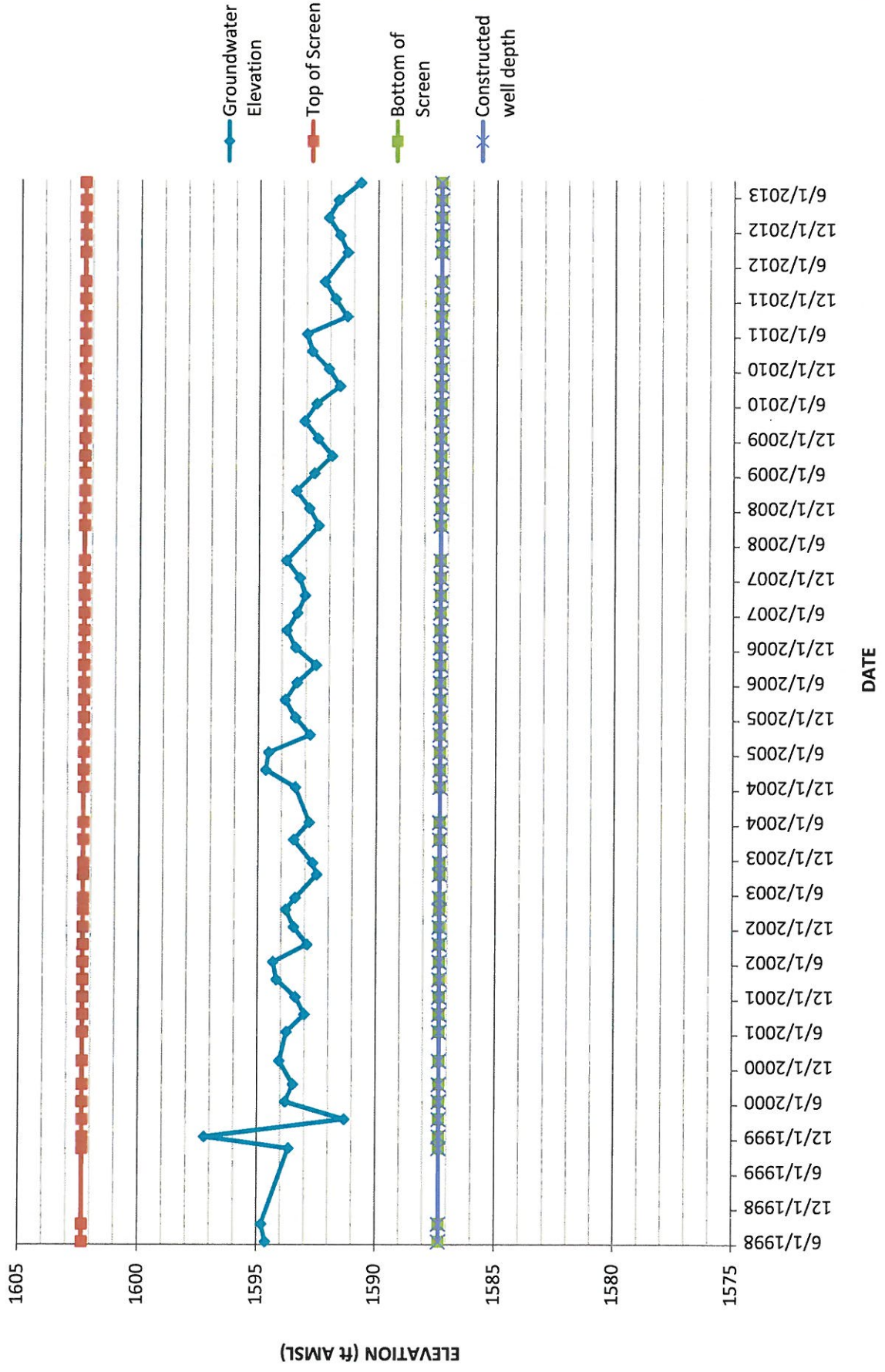
NOT SAMPLED INACCESSIBLE

GRAPHS

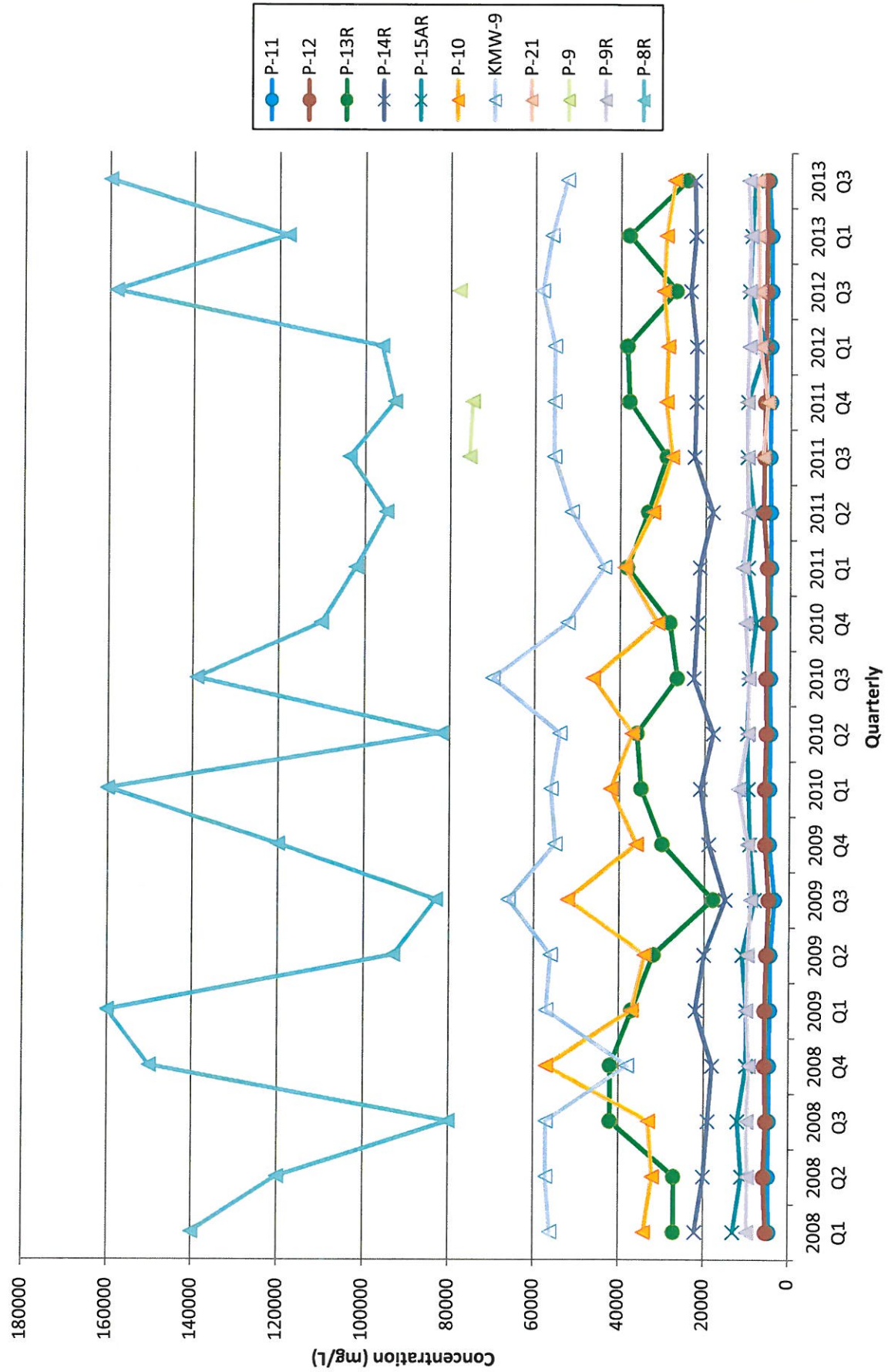
Sulfate Trends NV Energy RGS Hogan Wash Area



KMW-1S Hydrograph



Former Pond D Area TDS Trends



ANNUAL SAMPLING RECORD

ANNUAL SAMPLING RECORD - LEVEL II REPORTING
3rd Quarter 2013
NV Energy - Reid Gardner Station

QTRLY	Quarterly - Samples will be collected in February (1st Qtr), May (2nd Qtr), August (3rd Qtr), and November (4th Qtr).					
SEMI-A	Semi-Annual - Samples will be collected in February (1st Qtr) and August (3rd Qtr).					
MONITORING WELLS						
WELL NUMBER	SAMPLING FREQUENCY	2013 SAMPLES COLLECTED				REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	
Mesa Wells						
LMW-2	SEMI-A*	X		X	Sampled 8/21/2013 for SNHD purposes	
LMW-3	SEMI-A*	X		X	Sampled 8/21/2013 for SNHD purposes	
LMW-4	ABANDONED				Well abandoned July 2011	
LMW-4R	SEMI-A*	X		X	Sampled 8/21/2013 for SNHD purposes	
LMW-5	ABANDONED				Well abandoned July 2011	
LMW-5R	SEMI-A*	X		X	Sampled 8/21/2013 for SNHD purposes	
LMW-6	ABANDONED				Well abandoned July 2011	
LMW-6R	SEMI-A*	X		X	Sampled 8/20/2013 for SNHD purposes	
LMW-7	SEMI-A*	X		X	Sampled 8/20/2013 for SNHD purposes	
LMW-8	ABANDONED				Well abandoned July 2011	
LMW-8R	SEMI-A*	X		X	Sampled 8/21/2013 for SNHD purposes	
LMW-9	SEMI-A*	X		X	Sampled 8/20/2013 for SNHD purposes	
LMW-10	SEMI-A*	X		X	Sampled 8/20/2013 for SNHD purposes	
LMW-11	SEMI-A*				NOT SAMPLED ANY MORE	
KMW-12	SEMI-A*	X		X	Sampled 8/21/2013 for SNHD purposes	
KMW-13	ABANDONED				Well abandoned Nov 2005	
KMW-16	SEMI-A*	X		X	Sampled 8/20/2013 for SNHD purposes	
KMW-17	ABANDONED				Well abandoned Aug 2006	
Hogan Wash Area Wells						
KMW-20	SEMI-A	X		X	Sampled 8/21/2013	
KMW-1D	SEMI-A	X		X	Sampled 8/20/2013	
KMW-1M	SEMI-A	X		X	Sampled 8/21/2013	
KMW-1S	SEMI-A	X		X	Sampled 8/21/2013	
IMW-2D	SEMI-A	X		X	Sampled 8/21/2013	
IMW-2S	ABANDONED				Well abandoned July 2011	
IMW-2SR	SEMI-A	X		X	Sampled 8/21/2013	
KMW-19	SEMI-A	X			Not sampled, too many roots	
Unit 4B/C Area Pond Wells						
KMW-11	SEMI-A	X		X	Sampled 8/21/2013	
KMW-2D	SEMI-A	X		X	Sampled 8/22/2013	
KMW-2M	SEMI-A	X		X	Sampled 8/22/2013	
KMW-2S	SEMI-A	X		X	Sampled 8/22/2013	
MW-10R	ABANDONED				Well abandoned July 2011	
MW-10RR	SEMI-A	X		X	Sampled 8/21/2013	
MW-2R	SEMI-A	X		X	Sampled 8/22/2013	
MW-3R	ABANDONED				Well abandoned July 2011	
MW-3RR	SEMI-A	X		X	Sampled 8/22/2013	
MW-5	SEMI-A	X		X	Sampled 8/22/2013	
MW-6	SEMI-A	X		X	Sampled 8/22/2013	
MW-7	ABANDONED				Well abandoned July 2011	
MW-11S	QTRLY	X	X	X	Sampled 8/22/2013	
MW-11M	QTRLY	X	X	X	Sampled 8/22/2013	
MW-12S	QTRLY	X	X	X	Sampled 8/22/2013	
MW-12M	QTRLY	X	X	X	Sampled 8/22/2013	
MW-13	QTRLY	X	X	X	Sampled 8/22/2013	
MW-14S	QTRLY	X	X	X	Sampled 8/22/2013	
MW-14M	QTRLY	X	X	X	Sampled 8/22/2013	
MW-15	QTRLY	X	X	X	Sampled 8/22/2013	
MW-16S	QTRLY	X	X	X	Sampled 8/22/2013	
MW-16M	QTRLY	X	X	X	Sampled 8/22/2013	
Former Pond 4A Area Pond Wells						
CMW-1D	SEMI-A	X		X	Sampled 8/21/2013	
CMW-1S	SEMI-A	X		X	Sampled 8/21/2013	
CMW-2D	SEMI-A	X		X	Sampled 8/21/2013	
CMW-2S	SEMI-A	X		X	Sampled 8/21/2013	
CMW-3D	SEMI-A	X		X	Sampled 8/21/2013	
CMW-3S	SEMI-A	X		X	Sampled 8/21/2013	
CMW-4D	SEMI-A	X		X	Sampled 8/21/2013	
CMW-4S	SEMI-A	X		X	Sampled 8/21/2013	
CMW-5D	SEMI-A	X		X	Sampled 8/20/2013	
CMW-5S	SEMI-A	X		X	Sampled 8/20/2013	
CMW-6D	SEMI-A	X		X	Sampled 8/20/2013	
CMW-6S	SEMI-A	X		X	Sampled 8/20/2013	
CMW-7D	SEMI-A	X		X	Sampled 8/20/2013	
CMW-7S	SEMI-A	X		X	Sampled 8/20/2013	
KMW-15	SEMI-A	X		X	Sampled 8/21/2013	
MW-1R	SEMI-A	X		X	Sampled 8/20/2013	
MW-4	SEMI-A	X		X	Sampled 8/20/2013	
MW-8	SEMI-A	X		X	Sampled 8/21/2013	
MW-9	SEMI-A	X		X	Sampled 8/21/2013	
IMW-2.5D	SEMI-A	X		X	Sampled 8/21/2013	
IMW-2.5S	SEMI-A	X		X	Sampled 8/21/2013	
IMW-3D	SEMI-A	X		X	Sampled 8/20/2013	
IMW-3S	SEMI-A	X		X	Sampled 8/20/2013	
*sampled quarterly (QTRLY) for SNHD purposes and semi-annually (SEMI-A) for AOC purposes						

*sampled quarterly (QTRLY) for SNHD purposes and semi-annually (SEMI-A) for AOC purposes

ANNUAL SAMPLING RECORD - LEVEL II REPORTING
3rd Quarter 2013
NV Energy - Reid Gardner Station

QTRLY	Quarterly - Samples will be collected in February (1st Qtr), May (2nd Qtr), August (3rd Qtr), and November (4th Qtr).					
SEMI-A	Semi-Annual - Samples will be collected in February (1st Qtr) and August (3rd Qtr).					
MONITORING WELLS (Continued)						
WELL NUMBER	SAMPLING FREQUENCY	2013 SAMPLES COLLECTED				REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	
Unit 1,2,3 Pond Area Wells						
P-1R	SEMI-A					Not Sampled
P-2	SEMI-A	X		X		Sampled 8/19/2013
P-3	DESTROYED					Well destroyed by construction Q1 2009
P-4	SEMI-A	X		X		Sampled 8/19/2013
P-5R	SEMI-A	X		X		Sampled 8/20/2013
P-6R	SEMI-A	X		X		Sampled 8/20/2013
P-7R	SEMI-A	X		X		Sampled 8/20/2013
P-8R	SEMI-A	X		X		Sampled 8/20/2013
P-9	SEMI-A					Not Sampled
P-9R	SEMI-A	X		X		Sampled 8/19/2013
KMW-9	SEMI-A	X		X		Sampled 8/19/2013
P-10	SEMI-A	X		X		Sampled 8/19/2013
P-11	SEMI-A	X		X		Sampled 8/19/2013
P-12	SEMI-A	X		X		Sampled 8/19/2013
P-13R	SEMI-A	X		X		Sampled 8/19/2013
P-14R	SEMI-A	X		X		Sampled 8/19/2013
P-15AR	SEMI-A	X		X		Sampled 8/19/2013
P-17A	SEMI-A	X		X		Sampled 8/19/2013
P-17B	SEMI-A	X		X		Sampled 8/19/2013
P-18A	SEMI-A	X		X		Gauged 8/19/2013, No Sample, well was dry
P-18B	SEMI-A	X		X		Sampled 8/19/2013
P-19A	ABANDONED					Well abandoned July 2011
P-19AR	SEMI-A	X		X		Sampled 8/19/2013
P-20A	SEMI-A	X		X		Sampled 8/19/2013
P-20B	SEMI-A	X		X		Sampled 8/19/2013
KMW-8R	SEMI-A	X		X		Sampled 8/19/2013
P-21	SEMI-A	X		X		Sampled 8/19/2013
P-22	SEMI-A	X		X		Sampled 8/19/2013
KMW-4D	DESTROYED					Well destroyed by livestock Q4 2004
KMW-4M	DESTROYED					Well destroyed by livestock Q4 2004
KMW-4S	DESTROYED					Well destroyed by livestock Q4 2004
IMW-16S	SEMI-A	X				No access to well in Q3 2013
IMW-16D	DESTROYED					Well destroyed Q2 2009
MONITORING WELL REPORTING AND ANALYSIS PARAMETERS (To be done QTRLY)						
Field	Lab	Dissolved Metals ONLY				
Depth to Groundwater	Specific Conductance	Arsenic	Molybdenum			
Groundwater Elevation	TDS	Beryllium	Nickel			
pH	Chloride	Boron	Potassium			
	Nitrate as N	Cadmium	Selenium			
	Sulfate	Calcium	Sodium			
		Chromium	Titanium			
		Magnesium	Vanadium			
		Manganese				
ANALYZE FOR THESE PARAMETERS FOR THESE WELLS IN ADDITION TO THE REGULAR PARAMETERS						
Fluoride		KMW-1D	P-2	IMW-9R	HM-28	
Strontium		KMW-1M	P-3	IMW-12.5R	HM-52R	
Sulfide (H2S)		KMW-1S	P-4	IMW-13R	HM-53	
Sulfite		KMW-19	P-5R	IMW-14R	HM-54	
Total Organic Carbon		KMW-20	P-6R	IMW-17		
Total Suspended Solids		IMW-2D	P-7R			
Turbidity		MW-2R	P-8R			
Zinc		MW-3RR	P-9			
		MW-4	P-9R			
		MW-7	P-10			
		MW-9	KMW-9			
		KMW-15				

ANNUAL SAMPLING RECORD - LEVEL II REPORTING
3rd Quarter 2013
NV Energy - Reid Gardner Station

QTRLY	Quarterly - Samples will be collected in February (1st Qtr), May (2nd Qtr), August (3rd Qtr), and November (4th Qtr)					
SEMI-A	Semi-Annual - Samples will be collected in February (1st Qtr) and August (3rd Qtr).					
ADDITIONAL MONITORING WELLS (Continued)						
Former ASP-1,2,3 Area						
WELL NUMBER	SAMPLING FREQUENCY	2013 SAMPLES COLLECTED				REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	
IMW-9R	SEMI-A	X		X		Sampled 8/22/2013
IMW-12.5R	SEMI-A	X		X		Sampled 8/22/2013
IMW-13R	SEMI-A	X		X		Sampled 8/22/2013
IMW-14R	SEMI-A	X		X		Sampled 8/22/2013
IMW-15	SEMI-A					Not able to sample, too many roots in well
IMW-17	SEMI-A	X		X		Sampled 8/22/2013
MONITORING WELL REPORTING AND ANALYSIS PARAMETERS (To be done QTRLY)						
<u>Field</u>	<u>Lab</u>	<u>Dissolved Metals Only</u>				
Depth to Groundwater	VOC 8260 Full Scan	Arsenic Manganese				
Groundwater Elevation	TDS	Barium Molybdenum				
pH	Chloride	Beryllium Nickel				
	Sulfate	Boron Selenium				
	Nitrate as N	Cadmium Sodium				
	Phosphates as P	Calcium Titanium				
		Chromium Vanadium				
		Magnesium				
Dissolved Chlorinated Solvents Area						
WELL NUMBER	SAMPLING FREQUENCY	2013 SAMPLES COLLECTED				REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	
HM-8	SEMI-A	X		X		Sampled 8/23/2013
HM-48	SEMI-A	X		X		8/27/2013 - Free Product, gauged only
HM-50	DESTROYED					Well paved over Q3 2009
HM-50R	SEMI-A	X		X		8/27/2013 - Free Product, gauged only
HM-51	DESTROYED					Well destroyed by construction Q1 2008
MONITORING WELL REPORTING AND ANALYSIS PARAMETERS (To be done QTRLY)						
<u>Field</u>	<u>Lab</u>	<u>Dissolved Metals Only</u>				
Depth to Groundwater	VOC 8260 Full Scan	Arsenic Manganese				
Groundwater Elevation	Ethylene	Barium Molybdenum				
pH	TDS	Beryllium Nickel				
	Chloride	Boron Selenium				
	Sulfate	Cadmium Sodium				
	Nitrate as N	Calcium Titanium				
	Phosphates as P	Chromium Vanadium				
		Magnesium				

ANNUAL SAMPLING RECORD - LEVEL II REPORTING
3rd Quarter 2013
NV Energy - Reid Gardner Station

QTRLY	Quarterly - Samples will be collected in February (1st Qtr), May (2nd Qtr), August (3rd Qtr), and November (4th Qtr).																																								
SEMI-A	Semi-Annual - Samples will be collected in February (1st Qtr) and August (3rd Qtr).																																								
ADDITIONAL MONITORING WELLS (Continued)																																									
Waste Management Unit-12 Area																																									
WELL NUMBER	SAMPLING FREQUENCY	2013 SAMPLES COLLECTED				REMARKS																																			
		1ST QTR	2ND QTR	3RD QTR	4TH QTR																																				
HM-19	SEMI-A	X		X		Sampled 8/23/2013																																			
HM-20	SEMI-A	X		X		8/27/2013 - Free Product, gauged only																																			
HM-24	SEMI-A	X		X		Sampled 8/23/2013																																			
HM-28	SEMI-A	X		X		Sampled 8/23/2013																																			
HM-31R	SEMI-A	X		X		Sampled 8/23/2013																																			
HM-32	ABANDONED					Well abandoned July 2011																																			
HM-32R	SEMI-A	X		X		Sampled 8/23/2013																																			
HM-33	SEMI-A	X		X		Sampled 8/23/2013																																			
HM-52	ABANDONED					Well abandoned July 2011																																			
HM-52R	SEMI-A	X		X		Sampled 8/23/2013																																			
HM-53	SEMI-A	X		X		Sampled 8/23/2013																																			
HM-54	SEMI-A	X		X		Sampled 8/23/2013																																			
HM-60	SEMI-A	X		X		Sampled 8/23/2013																																			
Unit 4 Dewatering Well Effluent	SEMI-A	X		X		Sampled 8/23/2013																																			
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POND NUMBER	SAMPLING FREQUENCY	2013 SAMPLES COLLECTED				REMARKS																																			
		1ST QTR	2ND QTR	3RD QTR	4TH QTR																																				
MR Upstream	QTRLY	X	X	X		Measured 8/23/2013																																			
MR Midstream	QTRLY	X	X	X		Measured 8/23/2013																																			
MR Downstream1*	QTRLY	X	X	X		Measured 8/23/2013																																			
MR Downstream2*	QTRLY	X	X	X		8/23/2013 - No Flow in Upper Culvert																																			
<p>SURFACE ELEVATIONS REPORTING (To be done QTRLY)</p> <p><u>Field</u></p> <p>DTW</p> <p>Surfacewater Elevation</p> <p>MR - Muddy River</p> <p>*Downstream 1 OR Downstream2 should be gauged, depending on river stage</p>																																									